

COUNTY OF LEXINGTON
Procurement Services
212 South Lake Drive, Suite 503, Lexington, SC 29072
Ph: (803) 785-8319 / Fax: (803) 785-2240

INVITATION FOR BIDS

BID NUMBER: C15006-09/08/14S

DATE: August 7, 2014

OPENING DATE AND TIME: **September 8, 2014 @ 3:00 PM E.S.T.**

ADDRESS: Lexington County Procurement Office
County Administration Bldg., 5th floor
212 South Lake Drive, Suite 503, Lexington SC 29072

MAILING ADDRESS: Lexington County Procurement Office
County Administration Bldg., 5th floor
212 South Lake Drive, Suite 503, Lexington SC 29072

PROCUREMENT: **AMBULANCES - TERM CONTRACT**

Subject to the conditions, provisions and the enclosed specifications, sealed bids will be received at this office until the stated date and time and then publicly opened. Any bid received after the scheduled deadline, will be immediately disqualified. The County assumes no responsibility for delivery of bids, which are mailed. No Faxed Bids Will Be Permitted.

IT IS REQUIRED THAT THE BID NUMBERS MUST BE SHOWN ON THE OUTSIDE OF ENVELOPE. ANY ENVELOPE THAT DOES NOT SHOW BID NUMBERS WILL BE RETURNED TO THE VENDOR.

DIRECT ALL INQUIRES TO:

Angela M. Seymour
Procurement Officer

NOTICE TO BIDDERS: NOTICE TO BIDDERS: There will be a Mandatory Pre-Bid Conference on August 21, 2014 @ 2:00 PM at Lexington County EMS Operations Center, 407 Ball Park Road, Lexington, SC 29072. The Mandatory Pre-Bid Conference will start promptly at 2:00 PM and any persons arriving late will be deemed non-responsible. Due to the importance of all bidders having a clear understanding of the scope and requirements for this contract, *attendance at this meeting will be a prerequisite for bidding on this contract.* Therefore, bids will be considered only from those bidders who are represented at this pre-bid conference. Attendance at the conference will be evidenced by the representative's signature on the attendance roster. It may be helpful to bring the Invitation to Bid with you. Any changes that may be agreed upon as a result of this conference will be noted in an amendment to the bid invitation and mailed to all attendees. Each bidder shall fully acquaint himself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this bid. The failure or omission of a bidder to acquaint himself with existing conditions shall in no way relieve him of any obligation with respect to this bid or to the contract. All amendments to and interpretations of this solicitation shall be in writing and issued by the Procurement Manager of the County. Lexington County shall not be legally bound by any amendment or interpretation that is not in writing. **BIDS WILL NOT BE CONSIDERED FROM ANY VENDOR THAT OWES DELINQUENT TAXES TO THE COUNTY OF LEXINGTON.**

If downloading this solicitation from our website or alternate internet location, it is the responsibility of the bidder to email aseymour@lex-co.com to be registered as a potential bidder to receive any subsequent amendments.

Deadline for questions is August 22, 2014 at 4:00 p.m. All questions must be submitted in writing.

Jeffrey A. Hyde, CPPB
Procurement Manager

SOLICITATION #: C15006-09/08/14S
PROCUREMENT: AMBULANCES - TERM CONTRACT

"NO BID" RESPONSE FORM

To submit a "No Bid" response for this project, this form must be completed for your company to remain on our bidders list for commodities/services referenced. If you do not respond your name may be removed from this bidders list. In order to ensure that the County file has current information, or if you wish to be added to Lexington County's Vendor Listing, you must also return the Certificate of Familiarity form completed in its entirety.

Note: Please show the solicitation number on the outside of the envelope.

Please check statement(s) applicable to your "No Bid" response --

- ☐ Specifications are restrictive; i.e. geared toward one brand or manufacturer only (explain below).
- ☐ Specifications are ambiguous (explain below).
- ☐ We are unable to meet specifications.
- ☐ Insufficient time to respond to the solicitation.
- ☐ Our schedule would not permit us to perform.
- ☐ We are unable to meet bond requirements.
- ☐ We are unable to meet insurance requirements.
- ☐ We do not offer this product or service.
- ☐ Remove us from your vendor list for this commodity/service.
- ☐ Other (specify below).

Comments:

Company Name (as registered with the IRS)

Authorized Signature

Correspondence Address

Printed Name

City, State, Zip

Title

E-mail Address (Please Print)

Date

Telephone

/_____
Fax

INSTRUCTIONS TO BIDDERS

1. Only one copy of bid invitation is required, unless otherwise stated.
2. Bids, amendments thereto or withdrawal request must be received by the time advertised for bid openings to be timely filed. It is the vendor's sole responsibility to insure that these documents are received by the Procurement Office at the time indicated in the bid document.
3. When specifications or descriptive papers are submitted with the bid invitation, enter bidder's name thereon.
4. Submit your signed bid on the forms provided. Show bid number on envelope as instructed. Lexington County assumes no responsibility for unmarked or improperly marked envelopes. Unsigned bids will be rejected.
5. Bidders must clearly mark as "Confidential" each part of their bid which they consider to be proprietary information that could be exempt from disclosure under Section 30-4-4C Code of Laws of South Carolina, 1976, (1986 Cum Supp) Freedom of Information Act. The County reserves the right to determine whether this information should be exempt from disclosure and no legal action may be brought against the County or its agents for its determination in this regard.
6. By submission of a bid, you are guaranteeing that all goods and services meet the requirements of the solicitation during the contract period.
7. This solicitation does not commit the County of Lexington to award a contract, to pay any cost incurred in the preparation of the bid, or to procure or contract for goods or services listed herein.
8. **CORRECTION OF ERRORS ON THE BID FORM:** All prices and notations shall be printed in ink or typewritten. Errors should be crossed out, corrections entered and initialed by the person signing the bid. Erasures or use of typewriter correction fluid may be cause for rejection. No bid shall be altered or amended after specified time for opening.
9. **BIDDERS SCHEDULE:** Enter the manufacturer, brand, and model/catalog number, as applicable, and your bid price in the space provided on the bidders schedule. Additional pages may be attached, when applicable, for alternates, etc.
10. **NOTIFICATION:** Intent to Award and/or Statement of Award with tabulation will be posted on the Lexington County web site at www.lex-co.com.
11. **RIGHT TO PROTEST:** Any prospective bidder, offeror, or contractor, who is aggrieved in connection with the solicitation of a contract shall protest in writing to the Procurement Manager within ten (10) calendar days of the date of issuance of the Invitation to Bid, Requests for Proposals or other solicitation documents, whichever is applicable, or any amendment thereto, if the amendment is at issue. Any actual bidder, offeror, or contractor, who is aggrieved in connection with the intended award or award of a contract, shall protest in writing to the procurement manager within ten (10) calendar days of the notification of intent to award or statement of award.

12. **PROTEST PROCEDURE:** A protest shall be in writing, submitted to the procurement manager, and shall set forth the specific grounds of the protest with enough particularity to give notice of the issues to be decided.
13. **QUESTIONS REGARDING SPECIFICATIONS AND/OR THE BIDDING PROCESS:**
 - To ensure fair consideration for all bidders, the County prohibits any type of communications to or with any department, employee, or County official during the solicitation process, except as provided on page one of the solicitation. This includes any communications initiated by a bidder to any County Official or employee evaluating or considering the bidder, prior to the time an award decision has been made public.
 - Any communications between the bidder and the County shall be initiated by the Procurement Office or the appropriate County representative in order to obtain necessary information or clarification needed to develop a proper and accurate evaluation of the bid. **Any communications initiated by a bidder shall be grounds for disqualifying the offending bidder from consideration for award of the bid and/or any future solicitations.**
 - It will be the sole responsibility of the bidder to contact the Procurement Office prior to submitting a bid to ascertain if any amendments or addendums have been issued in order to obtain all such documentation, and to return the executed documentation with their bid.

GENERAL PROVISIONS

1. The County of Lexington reserves the right to reject any and all bids, to cancel a solicitation, and to waive any technicality if deemed to be in the best interest of the county.
2. Unit prices will govern over extended prices unless otherwise stated in this bid invitation.
3. **PROHIBITION OF GRATUITIES:** Amended section 8-13-700 and 705 of the 1976 Code of Laws of South Carolina states: "Whoever gives or offers to any public official or public employee any compensation including a promise of future employment to influence his action, vote, opinion or judgment as a public official or public employee or such public official solicits or accepts such compensation to influence his action, vote, opinion or judgment shall be subject to the punishment as provided by Section 16-9- 210 and Section 16-9-220."
4. **BIDDERS QUALIFICATIONS:** Consideration will be given only to the contractors who can produce conclusive evidence that they can meet the following requirements:
 - 4.1 Adequate capital and credit rating sufficient to complete all operations under this contract in a satisfactory manner.
 - 4.2 An efficient office force with satisfactory record in expediting delivery of materials to field force, and capable of fulfilling proper liaison service with mechanical trade.
 - 4.3 An adequate and efficient field force with extensive knowledge of all types of work involved under this contract.
 - 4.4 A record of amicable relations with labor.
 - 4.5 An adequate supply of applicable equipment in good operating condition to fulfill the contract.
5. **LICENSES, PERMITS, INSURANCE, & TAXES:** All costs for required licenses, permits, insurance, and taxes shall be borne by the Contractor.

6. INSURANCE

- 6.1 The amount and types of insurance required should be reasonably commensurate with the hazards and magnitude of the undertaking, but in no event of lesser amount nor more restrictive than the limits of liability and schedule of hazards below described. Without limiting its liability under the contract agreement, the Contractor shall procure and maintain, at its expense during the life of this contract, insurance of the types in the minimum amounts stated below:

SCHEDULE

WORKERS COMPENSATION

As required by the State of South Carolina.

COMPREHENSIVE GENERAL LIABILITY

Premises Operations

Single Limit

Contractual Liability

Independent Contractors

Personal Injury

Products - Completed Operations

LIMIT

Statutory

\$1,000,000 (per occurrence)

PROFESSIONAL LIABILITY

\$1,000,000/\$3,000,000 (per occurrence)

AUTOMOBILE LIABILITY

All Owned, Non-Owned, and Hired

\$ 600,000 Combined

(per occurrence or tort claim liability,
whichever is greater)

- 6.2 The Contractor's comprehensive general liability policy shall also include blanket contractual liability coverage or shall be endorsed to cover the liability assumed by the Contractor. Said insurance shall be written by a company or companies approved to do business in the State of South Carolina and acceptable to the County. Before commencing any work hereunder, certificates evidencing the maintenance of said insurance shall be furnished to the County of Lexington. The County of Lexington, its officials, employees and volunteers are to be covered as insureds as respects: liability arising out of activities performed by or on behalf of the contractor, including the insured's general supervision of the contract; products and completed operations of the contractor; premises owned, occupied or used by the Contractor; or automobiles owned, leased, hired or borrowed by the contractor. The coverage shall contain no special limitations on the scope of protection afforded to the County of Lexington, its officials, employees or volunteers. To accomplish this objective, the County of Lexington shall be named as an additional insured under the Contractor's insurance as outlined above.
- 6.3 The contractor shall take out and maintain, during the life of this contract, the statutory Workmen's Compensation and Employer's Liability Insurance for all of his employees to be engaged in work on the project under this contract, and in case any such work is sublet, the contractor shall require the subcontractor similarly to provide Workmen's Compensation and Employer's Liability Insurance for all of the latter's employees to be engaged in such work.
- 6.4 Contractors insurance coverage shall be primary insurance as respects the County of Lexington, its officials, employees and volunteers. Any insurance or self-insurance maintained by the County of Lexington shall be in excess of the Contractor's insurance and shall not be required to contribute. To

accomplish this objective, the following wording should be incorporated in the previously referenced additional insured endorsement:

Other Insurance: This insurance is primary, and our obligations are not affected by any other insurance carried by the additional insured whether primary, excess, contingent or on an other basis.

- 6.5 Each insurance required by the County of Lexington shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the County of Lexington.
- 6.6 Contractor shall include all subcontractors as insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all the requirements stated herein.
- 6.7 All certificates and endorsements must be received and approved by the County of Lexington within ten (10) days after notification of award.
- 6.8 The County, its officers and employees shall be named as an “additional insured” in the Automobile and General Liability policies and it shall be stated on the Insurance Certificate with the provision that this coverage “is primary to all other coverage the County may possess”.
- 6.9 Lexington County reserves the right to review and approve contracted vendor’s insurance carrier.
7. **BIDDERS RESPONSIBILITY:** Each bidder shall fully acquaint himself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this bid. It is expected that this will sometimes require on-site observation. The failure or omission of a bidder to acquaint himself with existing conditions shall in no way relieve him of any obligation with respect to this bid or to the contract.
8. **AWARD CRITERIA:** The contract shall be awarded to the lowest responsible and responsive bidder(s) whose bid meets the requirements and criteria set forth in the Invitation for Bid. The award may be made to one or a multiple of contractors; whichever is in the best interest of the County, or unless otherwise stated on bidders schedule.
 - 8.1 All things considered equal, tied bids will be resolved by the flip of the coin, or to the Lexington County contractor, whichever the case may be.
9. **WAIVER:** The County reserves the right to waive any Instruction to Bidders, General or Special Provisions, General or Special Conditions, or specifications deviation if deemed to be in the best interest of the county.
10. **COMPETITION:** This solicitation is intended to promote competition. If any language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested contractor to notify the Procurement Services Office in writing within five (5) days prior to the opening date. The solicitation may or may not be changed but a review of such notification will be made prior to the award.

11. **REJECTION:** Lexington County reserves the right to reject any bid that contains prices for individual items or services that are inconsistent or unrealistic when compared to other prices in the same or other bids or ambiguous bids which are uncertain as to terms, delivery, quantity, or compliance with specifications may be rejected or otherwise disregarded if such action is in the best interest of the county.

BIDS WILL NOT BE CONSIDERED FROM ANY VENDOR THAT OWES DELINQUENT TAXES TO THE COUNTY OF LEXINGTON.

GENERAL CONDITIONS

1. **DEFAULT:** In case of default by the contractor, the county reserves the right to purchase any or all items in default in the open market, charging the contractor with any excessive costs. Should such charge be assessed, no subsequent bids will be considered or purchase orders issued to the defaulting contractor until the assessed charge has been satisfied.
2. **NON-APPROPRIATION:** Any contract entered into by the County resulting from this bid invitation shall be subject to cancellation without damages or further obligation when funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period or appropriated year.
3. **INDEMNIFICATION:** The contractor agrees to indemnify and save harmless the County of Lexington and all County officers, agents and employees from claims, suits, actions, damages and costs of every name and description, arising out of or resulting from the use of any materials furnished by the Contractor, provided that such liability is not attributable to negligence on the part of the county or failure of the county to use the materials in the manner outlined by the Contractor in descriptive literature or specifications submitted with the Contractor's bid.
4. **CONTRACT ADMINISTRATION:** Questions or problems arising after award of this contract shall be directed to the Procurement Officer. Copies of all correspondence concerning this contract shall be sent to the Procurement Manager, 212 South Lake Drive, Lexington, SC 29072. All change orders must be authorized in writing by the Procurement Manager. Lexington County shall not be bound to any change in the original contract unless approved in writing by the Procurement Manager.
5. **PUBLICITY RELEASES:** Contractor agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the User. The contractor shall not have the right to include the county's name in its published list of customers without prior approval of the county. With regard to news releases, only the name of the County, type and duration of contract may be used and then only with prior approval of the county. The contractor also agrees not to publish, or cite in any form, any comments or quotes from the County Staff unless it is a direct quote from the Public Information Officer.
6. **QUALITY OF PRODUCT:** Unless otherwise indicated in this bid it is understood and agreed that any items offered or shipped on this bid shall be new and in first class condition unless otherwise indicated herein.
7. **S.C. LAW CLAUSE:** Upon award of a contract under this bid, the person, partnership, association or corporation to whom the award is made must comply with the laws of South Carolina which require such person or entity to be authorized and/or licensed to do business with this State. Notwithstanding

the fact that applicable statutes may exempt or exclude the successful bidder from requirements that it be authorized and/or licensed to do business in this State, by submission of this signed bid, the bidder agrees to subject himself to the jurisdiction and process of the courts of the State of South Carolina as to all matters and disputes arising or to arise under the contract and the performance thereof, including any questions as to the liability for taxes, licenses, or fees levied by the State.

8. ATTORNEYS FEES: In the event that the County is required and shall bring a suit or action to compel performance of or recover for any breach of any stipulation, covenant, term or condition of a resulting contract, The County may seek attorneys fees from Contractor and Contractor will pay to County such attorneys fees as the court may award. Otherwise, attorneys fees in connection with any suit or action hereunder will be borne by the parties experiencing said expenses.
9. ASSIGNMENT: No contract or its provisions may be assigned, sublet, or transferred without the written consent of the Procurement Manager.
10. AFFIRMATIVE ACTION: Contractor agrees that it will not discriminate in hiring, promotion, treatment, or other terms and conditions of employment based upon race, sex, national origin, age, disability, or in any way violation of Title VII of 1964 Civil Rights Act and amendments or the South Carolina Human Affairs Law, except as permitted by said laws.
11. BIDDING CONDITION OF PRICE: All bid prices submitted shall remain effective for a minimum period of 90 days, or until evaluation of bids is complete and award is made. Thereafter, the contract prices shall remain effective for the term of the contract.
12. 7% S.C. SALES TAX: The County shall add 7% sales tax to all orders, however lump sum bids shall include sales tax in bid price unless otherwise noted. ***By submission of a signed bid, you are certifying to the County that your company does not have any tax bills past due.***

Forms to register for all taxes administered by the South Carolina Department of Revenue may be obtained by calling the License and Registration Section at (803) 898-5872 or by writing to the South Carolina Department of Revenue, Registration Unit, Columbia, South Carolina 29214-0140.

13. PAYMENT TERMS: Payment of invoices shall be due within thirty (30) days after receipt of an accurate, undisputed, and properly submitted invoice to the County after acceptance of completed order/project. Early payment discount, if available, will be calculated from date of acceptance. Application for payment shall reflect services completed through the last day of the month. ***There will be no exceptions to these payment terms unless approval is obtained in writing from the Procurement Manager prior to bid opening date.***
14. BID REQUIREMENTS: Bid requirements on the equipment specified are not intended to be restrictive to potential bidders, but indicate the required features for satisfactory performance. Lexington County will determine if minor deviations from these features are acceptable.
15. DEVIATIONS FROM SPECIFICATIONS: Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and successful bidder will be held responsible therefore. Deviations must be explained in detail on separate attached sheet(s). The listing of deviations, if any, is required but will not be construed as waiving any requirements of the specifications. Deviations found in the evaluation of the

bid and not listed may be cause for rejection. Bidders offering substitute or equal items must provide information sufficient enough to determine acceptability of item offered.

16. **CONTRACT:** This bid and submitted documents, when properly accepted by Lexington County along with a written purchase order, shall constitute a contract equally binding between the successful offeror, and Lexington County. No different or additional terms will become a part of this contract with the exception of a Change Order.
17. **CHANGE ORDERS:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders to the contract will be made in writing by the Procurement Manager.
18. **AMENDMENTS:** All amendments to and interpretations of this solicitation shall be in writing and issued by the Procurement Manager of Lexington County. Lexington County shall not be legally bound by any amendment or interpretation that is not in writing.
19. **BID EVALUATION:** Bids received will be evaluated by the Procurement Manager or designee. However, based on bid total, final decision for bid award may rest with the Lexington County Council.

Factors to be considered during the evaluation process include, but are not limited to:

19.1 - Cost.

19.2 - Reputation and dependability of the contractor.

20. **ARBITRATION:** Under no circumstances and with no exception will Lexington County act as arbitrator.
21. **DELIVERY:** Lexington County requires that delivery be made to specified destination within the shortest time frame possible. Delivery shall arrive between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday, provided that such day is not a legal holiday. The current purchase order number must be indicated on all delivery tickets.
22. **SHIPPING:** All deliveries shall be shipped F.O.B. point Destination-freight prepaid, the seller pays and bears all freight charges; collect shipments will not be accepted. It is agreed by the parties hereto that delivery by the contractor to the common carrier does not constitute delivery to the County. Any claim for loss or damage shall be between the contractor and the carrier.
23. **"OR APPROVED EQUAL":** Certain processes, types of equipment or kinds of material are described in the specifications and/or on the drawings by means of trade/brand names and catalog numbers. In each instance where this occurs, it is understood and inferred that such description is followed by the words "or approved equal". Such method of description is intended merely as a means of establishing a standard of comparability. However, the Owner reserves the right to select the items, which, in the judgment of the Owner, are best suited to the needs of the Owner, based on price, quality, service, availability and other relative factors. Bidders should indicate brand name, model, model number, size, type, weight, color, etc., of the item bid, if not exactly the same as the item specified. Vendor's stock number or catalog number is not sufficient to meet this requirement. If any bidder desires to furnish an item different from the specifications, vendor should submit along with the bid, the information, data, pictures, designs, cuts, etc., of the material they plan to furnish so as to enable the Owner to compare the material specified; and, such material shall be given due consideration. The Owner reserves the right to

insist upon, and receive items as specified if the submitted items do not meet the Owner's standards for acceptance.

24. **ALTERNATE BIDS:** Bidders wishing to submit an alternate for consideration that does not meet the county specifications (or approved deviations), must submit their proposal as an alternate bid. ***If any vendor submits alternate bid(s) for any item(s), descriptive supporting literature must be included with bid package. Failure to submit such literature for alternate item(s) will result in non-consideration for said item(s).***
25. **PROMPT PAYMENT DISCOUNT TERMS:** Prompt payment discount terms will be calculated from the point of complete order acceptance for services and/or commodities ordered.
26. **DRUG-FREE WORKPLACE:** By submittal of this bid, you are certifying that you will comply with Title 44, Code of Laws of South Carolina, 1976, Section 44-107-30.
27. **ILLEGAL IMMIGRATION & PUBLIC CONTRACTS:** “In accordance with the South Carolina Illegal Immigration Reform Act, [2008, Act No. 280](#). Section 3 of this Act added to [Chapter 14 to Title 8](#) of the South Carolina Code of Laws prohibits covered persons from entering into covered contracts unless the contractor agrees either (a) to verify all new employees through the federal work authorization program [and requires the same from subcontractors and sub-subcontractors] or (b) to employ only qualifying workers. Effectively, the Act also requires contractors to agree to provide any documentation required to establish either (a) that the Act does or does not apply to the contractor, subcontractor, or sub-subcontractor; or (b) that the contractor, and any subcontractor or sub-subcontractor, are in compliance with Section 3 of the Act.”
28. **NO CONTACT POLICY:** After the date and time established for receipt of proposals by the County, any contact initiated by any offeror with any County representative, other than the Purchasing Department representative listed herein, concerning this request for proposals is prohibited. Any such unauthorized contact may cause the disqualification of the offeror from this procurement transaction.

SPECIAL CONTRACTUAL TERMS AND CONDITIONS

1. **SCOPE:** The County of Lexington is soliciting competitive bids to establish a term contract for providing and delivering services and/or commodities listed herein.
2. **TERM OF CONTRACT / OPTION TO EXTEND:** The term of this contract shall be for a period of one (1) year from the effective date of the contract. The County may extend the contract if it appears to be in the best interest of the County and is agreeable with the contracted vendor. Said extension will be on an annual basis and will not exceed four (4) additional one-year periods.
3. **CONTRACT ADJUSTMENTS:** Should an extension be requested, written requests for said extension shall be submitted in writing by the County of Lexington thirty (30) days prior to the end of the current contract period. It will be the contractors responsibility to submit request for contract adjustments (if applicable) within ten (10) days after receipt of contract extension notice. Requests must be submitted in writing to the Procurement Office for approval.

Any change in contract cost will be effective in an amount not to exceed the percentage increase for the previous calendar year (Dec - Dec), using the (CPI-U, U.S. Average, All Urban Customers, Percentage Change in Annual Average), as published by the U.S. Department of Labor, Bureau of Labor Statistics.

The County will accept or decline the requests for a contract increase, in written form, within ten (10) days following the date of the request. No increase shall be effective until approved in writing by the Procurement Manager.

4. **TERMINATION:** Subject to the provisions below, the contract may be terminated for any reason by the County providing a 30 day advance notice in writing is given to the contractor.
 - 4.1 Termination for Cause: Termination by the County for cause, default or negligence on the part of the contractor shall be excluded from the foregoing provisions, termination costs, if any, shall not apply. The thirty (30) days advance written notice requirement is waived and the default provision in this bid shall apply; see General Conditions.
 - 4.2 Termination for Convenience: The County, by written notice, may terminate this contract in whole or in part, when it is in the best interest of the County.
 - 4.3 Termination requirement does not apply if contract is to terminate at the end of an established contract term.
 - 4.4 Termination for Nonappropriations: If the Lexington County Council fails to appropriate or authorize the expenditure of sufficient funds to provide the continuation of this contract, or if a lawful order issued in or for any fiscal year during the term of the contract reduces the funds appropriated or authorized in such amount as to preclude making the payments set out therein, the contract shall terminate on the date said funds are no longer available without any termination charges or other liability incurring to the County. Any termination for non-appropriations shall not prohibit the County from obtaining services from another source or in another manner, which is in the best interest of the County.
5. **TYPE OF CONTRACT:** This solicitation is for a fixed price, indefinite quantity type of contract for the stated items. The contract will be used as a primary source for the articles specified, and individual purchases shall be made under a blanket purchase agreement referring to this solicitation. On indefinite quantity contracts, acceptance will bind the County to pay for, at the fixed unit bid prices, only quantities ordered, delivered and accepted.
6. **QUANTITIES:** **Quantities specified in this solicitation are estimates only, and are given for the information of bid evaluation.** They do not indicate actual ordered quantities. Volume will depend upon requirements that develop throughout the contract period. Quantities specified below will not be ordered at one time.
7. **METHOD OF ORDERING:** A new purchase order number will be issued for each order required, or an open purchase order may be issued to cover miscellaneous needs during a specific time period.
8. **PACKING/LABELING:** All shipments shall be accompanied by a packing slip or delivery ticket, which shall contain the following information:
 - a) Purchase Order Number
 - b) Company's Name
 - c) Name of the Article and Stock Number
 - d) Quantity Shipped and Back OrderedContractors are cautioned that failure to comply with these conditions can be considered sufficient reason for refusal to accept goods.

9. **INVOICING:** The contractor shall submit an itemized invoice upon completion of each purchase order requirement. The original and one copy of the invoices are to be mailed to the County of Lexington, Procurement Office, 212 South Lake Drive, Lexington, SC, 29072. Payment will be made in accordance with the payment terms listed in the contract. Purchase order number must appear on all invoices.
10. **EMERGENCY REQUIREMENTS:** The county reserves the right to make emergency purchases from another source should the contractor not be able to meet requirements.
11. **WARRANTIES:** Contractor warrants that (1) the supplies to be provided to the County pursuant to this agreement are fit and sufficient for the purpose intended; (2) the supplies are merchantable, of good quality, and free from defects, whether patent or latent, in material or workmanship, and (3) the supplies sold to the County pursuant to the contract conform to the standards required by the contract.
The contractor further warrants that the Contractor has title to the supplies provided, in that the supplies are free and clear of all liens, encumbrances, and security interests. All warranties made in this agreement, together with service warranties and guarantees, shall run to the County and its successors and assigns.
12. **INSPECTION:**
 - 12.1 All supplies (which term throughout this clause includes without limitation raw materials, components, intermediate assemblies and end products) shall be subject to inspection and test by the county, to the extent practicable at all times and places including the place of manufacture, and in any event prior to acceptance.
 - 12.2 In case any supplies or lots of supplies are defective in material or workmanship or otherwise not in conformity with the requirements of this contract, the county shall have the right to either reject them or to require their correction. Supplies or lots of supplies, which have been rejected or required to be corrected, shall be removed or corrected by and at the expense of the Contractor promptly after notice, and shall not thereafter be tendered for acceptance until correction is made. If the Contractor fails to promptly remove such supplies or lots of supplies which are required to be removed for replacement or correction, the county either (1) may replace or correct such supplies and charge to the Contractor the cost occasioned the county thereby; or (2) may terminate this contract for default as provided in the default clause of the contract.
 - 12.3 Acceptance or rejection of the supplies shall be made as promptly as practicable after delivery, except as otherwise provided in this contract; but failure to inspect and accept or reject supplies shall neither relieve the contractor from responsibility for such supplies as are not in accordance with the contract requirements nor impose liability on the county therefore.
 - 12.4 The inspection and test by the county of any supplies or lots thereof does not relieve the contractor from any responsibilities regarding defects or other failures to meet the contract requirements, which may be discovered prior to acceptance. Except as otherwise provided in this contract, acceptance shall be conclusive except as regards latent defects, fraud, or such gross mistakes as amount to fraud.
13. If bidding other than the products listed, descriptive literature must be submitted with the vendor's bid package.
14. For the purpose of product evaluation, Lexington County reserves the right to request samples of the items bid herein, at no additional cost to the County.

**Lexington County EMS
2014 Ambulance Specifications**

1.0 TECHNICAL REQUIREMENTS CAB - CHASSIS

1.1 GENERAL VEHICULAR DESIGN, TYPES, AND FLOOR PLAN

The ambulance and the allied equipment furnished under this specification shall be the primary manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with the operating accessories as specified herein. It shall be furnished with such modifications and attachments as necessary and specified to enable the vehicle to function reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement and adjustment of component parts and accessories with minimum disturbance to other components and systems.

Does your bid comply with this requirement?

Yes () No ()

1.1.2 CHASSIS

The ambulance shall be a Type I-AD, Class 5/6, and shall be a chassis furnished with a two (2) door conventional cab. The chassis shall be suitable for subsequent mounting of a modular (containerized), transferable equipped ambulance body conforming to the requirements herein.

Does your bid comply with this requirement?

Yes () No ()

1.1.3 LOADING

The design of the vehicle shall utilize floor plan "A" loading arrangement of patients into the patient compartment. All litters shall be loaded into position with the heads of the patients forward in the vehicle.

Does your bid comply with this requirement?

Yes () No ()

1.2 VEHICLE COMPONENTS, EQUIPMENT, AND ACCESSORIES.

The emergency medical care vehicle, chassis ambulance body, equipment, devices medical accessories and electronic equipment to be delivered under this contract shall be standard commercial products, tested and certified, to meet this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and United States regulations applicable or specified for the year of manufacture. The primary manufacturer shall procure the chassis, components, equipment and accessories as specified and be the current technical data and materials of all suppliers.

Does your bid comply with this specification?

Yes () No ()

1.3 MATERIALS

Materials used in the construction shall be new and meet the quality conforming to this specification. Materials shall be free of defects.

Does your bid comply with this specification

Yes () No ()

1.4 VEHICLE OPERATION, PERFORMANCE, AND PHYSICAL CHARACTERISTICS

The following is a description of the multiple cab and chassis configurations that shall be considered for bid. All configurations will meet the requirements of these specifications. In addition, they will comply with paragraphs 3.4.1 through 3.6.14 of Federal Specification KKK-A-1822F.

Does your bid comply with this specification?

Yes () No ()

1.5 CHASSIS MANUFACTURER AND MODEL YEAR

Model Profile

2015 Dodge 4500 4x2 Cab/Chassis, dual rear wheel or
2015 Dodge 5500 4x2 Cab/Chassis, dual rear wheel

Description

O.E.M.: The acronym O.E.M. is Original Equipment Manufacturer. The O.E.M. is the chassis manufacturer and the vehicles Make Origin.

CHASSIS MAKE: The apparatus shall be mounted on a commercially available cab and chassis manufactured by Dodge. The chassis manufacturer shall be the vehicle's point of origin. The chassis shall be supplied by Dodge as an incomplete vehicle to the successful ambulance manufacturer. The chassis supplied shall conform to all applicable Federal Motor Vehicle Safety Standards in force at time of manufacture. A statement of conformity shall be supplied with the chassis in an "Incomplete Vehicle Manual".

CHASSIS MODEL: The ambulance module shall be mounted on a 2015 Dodge Ram 4500 or 5500 (4x2) Cab/Chassis, 189 inch wheel base, dual rear wheel, two wheel drive chassis equipped as follows below. Manufacturer shall provide estimated curb weight for each chassis and anticipated payload capacity.

WHEEL BASE: The wheel base shall be 189 inches with a cab to axle of 108 inches. The wheel base shall be factory supplied by the O.E.M. Modified wheel bases made from chassis with shorter or longer wheel bases in not acceptable.

ENGINE: A 6.7L Cummins Turbo Diesel engine shall be provided. The engine performance shall comply with or exceed the most current revision of KKK-A-1822F.

ENGINE BLOCK HEATER: A 750 Watt 125 volt AC Engine Block Heater package shall be included on the chassis. After-market systems will not be acceptable.

TRANSMISSION: A 6-speed, automatic Aisin (AS69RC HD) with overdrive transmission shall be provided

GROSS VEHICLE WEIGHT RATING (GVWR): The GVWR of the chassis supplied shall be at least 16,500 pounds.

FRONT AXLE WEIGHT RATING (FAWR): The FAWR shall be rated at no less than 7,250 pounds.

REAR AXLE WEIGHT RATING (RAWR): The RAWR shall be rated no less than 12,000 pounds.

TOTAL WEIGHT: The total weight of the finished ambulance including all equipment specified in this document, all vehicle fluids, and full fuel tank(s) shall not exceed the gross vehicle weight rating including a 1,650 lb. payload capacity.

TURNING DIAMETER: The proposed vehicle(s) turning diameter shall not exceed twenty four feet.

QUICK ORDER PACKAGE 29G SLT;

DOOR LOCKS: The chassis shall have O.E.M. power door locks. There shall be a remote O.E.M. key fob included with the package. A programmable, factory installed keypad shall be provided on the Driver's door to lock and unlock the vehicle, to include the rear and side module doors as otherwise designated in this document.

REAR AXLE TYPE AND RATIO: The axle type shall be a Limited Slip Differential with a 4.10 gear ratio.

SPARE TIRE STOWAGE LOCATION: The spare tire and wheel assembly will not be carried on the units. The spare tire and the related tools shall be shipped loose with the completed vehicle.

TIRES: All tires shall be identical make, tread type, size and load range. The tires shall be Michelin load range "F or G" and their maximum load carrying rating shall not exceed actual axle load by more than 25% margin at maximum inflation, front and rear (Includes Spare). Vehicle shall be equipped with a tire pressure monitoring system with visual warning for all 6 tires on the ground. State whether integrated OEM or aftermarket.

TIRE VALVE EXTENDERS: One pair of tire valve extenders shall be supplied and installed for each inside rear wheel. The tire valve extenders shall permit the user to check tire pressure and fill the inside rear tires without removing the outer tire. The extenders shall have a braided stainless steel outer jacket to resist abrasions and cuts. The filler end shall be supported by a valve bracket.

AMBULANCE PREPARATION PACKAGE: The chassis provided shall be equipped with an AH2 ambulance preparations package designed and installed by O.E.M. The package shall be designed to hold up to the demands and duty cycles inherent with Emergency Medical Vehicles.

ALTERNATOR: CHARGING SYSTEM: DUAL 220 Amp Alternators.

THROTTLE HIGH IDLE: The O.E.M. high idle shall be installed and activated by Dodge prior to delivery.

CAB STEREO: An O.E.M. AM/FM/CD in dash radio and two cab door speakers shall be included with the chassis.

CHROME APPEARANCE PACKAGE: Optional chrome appearance package shall be supplied for chrome front bumper and other accents where available.

FRONT SWAY BAR UPGRADE: Roadmaster PN 1129-138 for Dodge 4500-5500 SHALL be provided.

CHASSIS WARRANTY:

The chassis manufacturer's vehicle warranty policies shall apply.

BASIC

- Corrosion Perforation
- Diesel Engine
- Power Train 5 Year / 100,000 mile
- Roadside Assistance

RUNNING BOARDS: The running boards shall be finished with bright aluminum diamond plate with grip struts inserts as required, and include nonmetallic spacers to prevent trapping of dirt and water between the running boards and the body cab.

All running boards shall be gusseted and provide brackets to prevent flexing, sagging and damage.

Design of the running boards shall incorporate a splash shield to protect the front of the modular body from the wheel wash.

Running boards shall be reinforced and braced to handle a minimum of 350 pounds without flexing. Running board installation to conform to chassis manufacturer's recommendation.

SIREN SPEAKERS: There shall be provided two (2) 100 watt electronic speakers. The speakers shall be recessed into the front bumper.

AIR RIDE WITH KNEELING FEATURE OVERRIDE SWITCH: The chassis shall have an air ride suspension system with an automatic lowering feature when street side rear passage door is opened. A disable switch shall be provided at the rear doorway to deactivate the system.

NOTE: Vendor will provide optional pricing for Liquid Spring, Kelderman, and Link air ride suspension for evaluation purposes. It is likely that LCEMS will exercise the option to purchase each type of suspension for evaluation purposes.

EXHAUST SYSTEM: The exhaust system shall conform to the chassis manufacturer's requirements.

FUEL TANK: The fuel tank must be mounted at the rear of the chassis to facilitate better weight distribution between the front and rear axles.

REAR BALLAST: Vendor to provide an option of adding 500 pounds through bolt on plates of removal ballast to the inside rear bumper area for selective load balancing of overall vehicle.

SPLASH GUARDS / MUD FLAPS: There shall be provided a set of splash guards installed in the front wheel wells of the cab. The splash guards shall be constructed of aluminum and shall be securely fastened to the inside of the wheel well.

Additionally, there shall be provided a set of heavy duty rear mud flaps. The flaps shall be made of thick rubber material and shall be as wide as the dual rear wheels. The mud flaps shall be securely fastened to the module body using stainless steel fasteners.

ENGINE BLOCK HEATER:

The engine block heater listed above shall be on an independent shoreline connection, wholly separate from the auxiliary shoreline.

HEAT SHIELD:

To further insulate and protect the patient compartment the ambulance manufacturer shall install 18 gauge galvanized steel below the subfloor material to act as a heat shield. An 18 gauge galvanized steel sheet, with waterproof insulation laminated to it, and shall be installed directly to the bottom of the floor tubes. This will create a sandwich style construction to further insulate the patient floor in the area of the muffler and exhaust.

Does your bid comply with this specification?

Yes () No ()

1.6 HEATER HOSES

Nomex heater hoses shall be installed and routed per QVM guidelines.

Does your bid comply with this requirement?

Yes () No ()

1.7 ENVIRONMENTAL SYSTEMS

The ambulance shall be equipped with heating, ventilating, and air conditioning systems that operate using recirculated air and ambient air and shall be capable of maintaining interior temperature within the established comfort zone of 68 degrees Fahrenheit and 78 degrees Fahrenheit while operating between 0 degrees and 95 degrees Fahrenheit ambient with 90% ambient humidity levels assumed. Environmental system components shall be readily accessible for servicing at the installed location. The airflow selector switch shall provide a high, medium and low setting. The switch shall be a common switch for both the heater and air conditioner. These environmental control switches shall be immediately accessible to the attendant while seated in the primary attendant seat located at the head of the primary patient. The rear ac system shall be connected to 2nd auxiliary compressor and the secondary skirt mounted auxiliary condenser unit. The compressor connected the chassis ac system shall not be modified.

The ambulance shall have a 110-volt, 1500 watt heater incorporated into the primary heat system wired to operate off the shore line system. This system shall use the primary patient compartment heat fan unit and an auxiliary heating element.

The module control thermostat shall be located on a removable panel above the action wall. The system shall automatically maintain the set module temperature every time the vehicle is operated. The combination air conditioning/heating unit shall be located in the top of the right front cabinet.

Primary manufacturers shall submit testing documentation from an independent laboratory for compliance with Federal Specification KKK-1822F with this proposal

Does your bid comply with this requirement?

Yes () No ()

1.8 *WHEEL TRIM*

There shall be Phoenix wheel simulators installed on the OEM wheels prior to delivery.

Does your bid comply with this requirement?

Yes () No ()

2.0 *VEHICLE BODY AND PATIENT AREA*

2.0.1 *BODY ACCOMMODATIONS*

The ambulance body and patient compartment shall be sufficient in size to meet the requirements of paragraph 3.10.1 of Federal Specification KKK - A1822 - F. The interior layout shall be such that a technician can administer life support treatments to at least one person during transport. The modular body shall be one hundred seventy (170) inches in length and ninety-six (96) inches wide.

Does your bid comply with this requirement?

Yes () No ()

2.1 *PATIENT COMPARTMENT INTERIOR DIMENSIONS*

Length: As measured from the bulkhead to the inside edge of the rear doors at the floor shall be at least one hundred and sixty-six (166) inches. There shall be at least twenty five (25) inches but not more than thirty (30) inches of clear space at the head of the primary patient, measured from the face of the backrest of the attendant's to the forward edge of the style one cot.

Width: Shall be measured after the installation of the street side cabinets will be forty (40) inches minimum between the cabinet wall and the face of the squad bench.

Height: The patient compartment shall provide at least seventy-two (72) inches of height over the primary patient area from the floor to the ceiling.

Does your bid comply with this requirement?

Yes () No ()

2.2 *GENERAL BODY CONSTRUCTION*

It is the intention of LCEMS to specify a modular body that is constructed solely of aluminum including side skins, roof skin, all structural box tubing, corner and roof extrusions, tapping plates, gusset plates, retention plates, doors, door extrusions, sub structure moisture barrier and drip rails. The modular shall be engineered, built and warranted by the primary manufacturer. LCEMS will not accept a proposal from a primary manufacturer, as defined within this document, that supplies a modular from an agency, builder, supplier, other than the primary manufacturer. This

section shall be the construction parameters LCEMS has deemed as fair value. Primary manufacturers that deviate from these specifications may take exception as set forth in section 14.

Does your bid comply with this requirement?

Yes () No ()

2.2.1

The exterior of the body shall be constructed utilizing a full six sided box framework with a combination of high strength 6061-T1 and 6063-T6 alloy aluminum and having an outer surface of aluminum sheet with a temper and alloy of 5052-H34 for strength, weld integrity and corrosion resistance. The front, sides, rear and roof of the modular shall be configured from a single sheet of .125 aluminum. The one (1) piece sheets shall be used to maximize integrity against dust, toxic fumes, cracking, and moisture penetration. The openings for doors, warning lights and exterior compartments shall be cut on the horizontal plane with a high speed router cutter for accuracy and integrity of temper. The roof and side skins shall be installed utilizing a very high bond adhesive to allow absorption of vibration and to eliminate "panning". The skins shall be welded to the interlocking extrusion framework at the outer perimeter of the sheets by using a pulse welder.

Does your bid comply with this requirement?

Yes () No ()

2.2.2

The roof shall be a single .125 sheet of 5052-H34 alloy aluminum. The roof sheet shall be completely welded to the extruded roof assembly. The use of multi-section roofs shall not be acceptable due to the possibility of cracks causing environmental intrusion.

Does your bid comply with this requirement?

Yes () No ()

2.2.3

The roof substructure assembly shall consist of four perimeter roof rail extrusions, lateral roof bows and interconnecting corner caps. The roof rail extrusions shall be engineered and designed by the primary manufacturer and shall be double hollow of 6063-T6 .125 aluminum. An integrated roof recess shall be incorporated to create a smooth transition from the one piece roof sheet to the perimeter drip rail. The perimeter drip rail shall be extruded as a design feature of the roof rail extrusion. The roof rail extrusion shall overlay the side skin by one half inch. The roof sheet shall be seam welded to the perimeter roof extrusion. The lateral roof bows shall be two (2) inch by two (2) inch by .125 square extrusions of 6061-T6 alloy aluminum and one inch by two inch running the opposite direction to form a grid structure. This allows the routing of the interior wire harnesses without having to cut any of the frame members. The structural members shall be located to support the roof skin on twelve inches between roof bows. The roof bows shall interconnect with the roof rails and be continuously welded at all contact points. The perimeter extrusion shall be welded to the vertical structures with a minimum of six inches of weld.

Does your bid comply with this requirement?

Yes () No ()

2.2.4

The corner caps shall be designed to interlock with the roof perimeter, vertical corner extrusions and roof sheet. The corner caps shall be cast aluminum made from matched metal dies to insure a smooth and pleasing appearance. The caps shall act as a stress relief device to absorb energy and disperse the force along the roof extrusions in the event of a collision.

Does your bid comply with this requirement?

Yes () No ()

2.2.5

The corners of the modular body shall be designed and engineered by the primary manufacturer and constructed of 6063-T6 alloy aluminum. The corner extrusion shall be double hollow with a minimum thickness of .125. The extrusion is designed with a unique appearance while maintaining very high strength and impact energy absorption.

Does your bid comply with this requirement?

Yes () No ()

2.2.6

The side assemblies shall be reinforced utilizing 6061-T6 alloy aluminum two by two box tubing. The side structures shall frame a perimeter around all door openings and shall be a minimum of .125 in thickness. Intermediate skin stiffeners shall be located to preclude skin deformation. Additional gusset plates shall be .250 inch aluminum and shall be welded at all contact points between the corner assembly and the roof perimeter.

Does your bid comply with this requirement?

Yes () No ()

2.2.7 WARRANTY

LCEMS is extremely concerned with purchasing a vehicle from a primary manufacturer who can provide the necessary service after sale. Therefore, as previously stated the modular shall have a fifteen (15) year warranty minimum and be engineered, designed and built by the primary manufacturer. Warranty shall be extended each time the unit is remounted by the original builder.

Does your bid comply with this requirement?

Yes () No ()

2.2.8

LCEMS is extremely concerned that the modular body be designed and built with the highest level of integrity and quality. Documentation and certification that the modular body being proposed meets Static Load Test Code for Ambulance Body Structure AMD Standard 001 must be included with this proposal.

LCEMS is committed to partnering with an ambulance manufacturing company that has programs in place for continual modular body safety improvements. To this end, LCEMS requires proof that ongoing safety testing and evaluation of modular body safety programs are in place. At a minimum, LCEMS requires, in addition to roof static load testing, side static load testing with a minimum side load of 22,700 lbs.

Additionally, all welders employed by the primary manufacturer shall be certified to the American Welding Society Standard AWS D12, and certification documents must be provided if requested.

All body welds shall not only be inspected by the primary manufacturer but shall also be inspected by an outside engineering firm and said firm shall conduct another visual inspection and a dye penetration test designed to reveal any flaws or imperfections in the welds. Documentation on this process must be provided if requested

NO EXCEPTION.

Does your bid comply with this requirement?

Yes () No ()

2.3 VEHICLE BODY STRUCTURE

All parts of the ambulance body, as specified in paragraph 3.10.6 of Federal Specification KKK - A - 1822F, shall, where applicable, be of welded construction. Where fasteners are used in such areas as hinge attachment, hardware attachment, etc., the fasteners shall be ceramic coated aluminum and stainless steel. Any hole drilled into the modular body painted surface shall be coated with an ECK corrosion inhibitor prior to installation of the part.

NO EXCEPTION.

Does your bid comply with this requirement?

Yes () No ()

2.3.1

Tapping plates of 6061-T6 alloy aluminum varying in widths of one quarter to one half inch shall be welded to the framing to secure the installation of equipment such as; cabinets, benches, partitions, cylinders, cot fasteners, etc. The body and panel joints shall be watertight and all openings between the chassis and modular shall be sealed. In addition a drip rail shall be supplied over each exterior compartment. The drip rail shall be attached in such a manner as to provide for quick and easy replacement. Drips rails that are part of the frame extrusion or attached by mechanical fasteners shall not be used.

Does your bid comply with this requirement?

Yes () No ()

2.4 BODY MOUNTING

The mounting system shall not cause any chassis frame deformation. There shall be ten (10) mounting points, five (5) on each frame rail. The modular body shall have full perimeter welded sill rails of one half (1/2) inch by two (2) inch of 6061-T6 alloy aluminum and be attached to the vehicle utilizing one inch by three inch sill plates of 6061-T6 alloy aluminum. The modular body shall be welded to the sill plates at every exposed seam. At all mounting locations a double compression, neoprene rubber isolator mounts shall be used to minimize chassis vibration transfer to the modular body. The modular body and sill plates shall be attached to the frame rails using three-quarter (3/4) inch grade eight bolts. Any method contrary to QVM which may void the chassis warranty shall not be accepted.

Does your bid comply with this requirement?

Yes () No ()

2.5 FLOOR

The floor shall be at lowest level permitted by clearances, but not more than thirty three inches from the ground. The floor structure shall consist of two by two by .225 structural box sections and two (2) x four (4) inch by .225 structural channel with 6061-T6 alloy aluminum. The floor structure shall be welded at every joint. The openings created for the placement of exterior compartments shall be welded to insure a smooth surface to fit the compartment in the structure. Tapping plates of one quarter (1/4) inch and one half (1/2) inch of 6061-T6 aluminum shall be completely welded both sides to the floor assembly. The finished floor assembly shall be securely welded to the wall structures with weld and skipped welded every four inches to the exterior compartments. All critical load points shall be reinforced with one quarter inch by three inch by four inch gusset plates. Above the floor channels there shall be an aluminum moisture shield .050 inches thick. Below the floor frame there shall be a .050 inches thick aluminum moisture shield. Two inches of spray foam insulation shall be applied before the top sheet of aluminum is installed. The entire underside of the modular shall be sealed with a waterproof sealant. All hollow structural shapes or cavities shall be sealed utilizing approved expandable foam.

Does your bid comply with this requirement?

Yes () No ()

2.5.1 REAR PATIENT ACCESS

The rear patient access shall be equipped with an exterior aluminum threshold mount to the lower door jamb. This threshold will protect the bottom door jamb.

Does your bid comply with this requirement?

Yes () No ()

2.6 ACOUSTIC AND CLIMATE INSULATION

The primary manufacturer shall supply an insulating material that is non-flammable with a Class A, Class 1 fire rating. It shall be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular shall be covered with reflective insulating material with a value of R-14. The side, front, rear, walls as well as the ceiling shall be insulated with spray foam insulation rated with a minimum value of R-11. Spray foam has been proven to provide excellent sound and thermal barrier over other materials. Spray foam insulation is safe and widely used in the automotive and construction industry. An additional layer of reflectix brand insulation shall be applied over the top of all side, front, rear & ceiling frames.

Does your bid comply with this requirement?

Yes () No ()

2.7 COMPARTMENT/ENTRY DOORS

The outer face of the door and door edges shall be formed from one sheet of 5052-H34 aluminum. The door shall be flush with the body side. The outer skin shall be 0.125 inches thick and shall be welded every six (6) inches to the inner door frame using a minimum of one and a half inch (1-1/2") long bead. All corners shall be welded a minimum of two (2) inches in each direction. The edge of the door shall be seamless.

The door frame shall meet with the exterior skin with a smooth seamless transition. There shall be no seams or crevices on the door or the door frame which allows the possibility of corrosion.

Both patient compartment and exterior compartment doors shall be provided with extruded rubber seal system consisting of a hollow cell bulb gasket. The gasket shall insert into an appropriately designed groove in the inner door extrusion. This will provide the best seal possible. Glued on seals or seals that are mounted to the compartment openings are unacceptable as they will easily be torn by loading or unloading of equipment stored in the compartment.

All doors shall be attached using minimum 1/4-20 stainless steel phillips bolt with polished stainless steel piano hinges with a pin of at least 0.250 inch in diameter. The hinge must be slotted to provide field adjustments. An ECK corrosion inhibitor shall be applied to the door frame and jamb bolt holes prior to installing the hinge.

All compartment doors shall be constructed the same as the entry doors. To ensure continued door alignment and successful latching capabilities, all access doors must be encased by a door jamb that is separate from the body skin and welded to the 2" x 2" tubular body frame members. The door jamb shall be a 0.125"/0.380" thick 6063-T6 aluminum extrusion. This provides the body with a seamless construction. The use of exterior extrusions around the door & compartment openings is not acceptable and will be cause for rejection on that bid. All interior door panels on all module doors shall be fastened by using threaded machine screws with vibration proof locking systems. A minimum of 0.25" actual thread contact must be maintained on each and every fastener through the use of threaded backing plates. No sheet metal type screws or self tapping screws will be accepted or machine screws threaded into any metal with a thickness under 0.25".

The interior surface of the patient compartment doors (rear and curb side) shall be finished in a safe and attractive manner that harmonizes with the interior appointments. The door panels shall be designed to allow removal without disturbing the door latching hardware. Door panels must be flush fitting not overlay. Doors using pliable materials such as upholstery are prohibited due to greater risk of contamination by blood borne pathogens through stitching or when cut or torn.

The three (3) patient compartment doors shall be fitted with stainless steel, flush fit, "paddle latch" hardware on the interior and exterior. The patient compartment doors shall be provided with a keyed lock and the rear doors and side door shall be lockable from the inside without a key per FMVSS.

When the doors are opened, the hinges, latches and door checks shall not protrude into the access area. All patient compartment doors shall employ the same type locking hardware. All door latches shall comply with requirements of FMVSS 206.

The locking devices shall be two-stage rotary latches and shall be FMVSS 206 certified. Where applicable, there shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The latches shall lock into an adjustable "Nader" type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate. The locking system shall be actuated from the locking handle by metal push rods.

The outside door handles shall be a rugged paddle style that are near flush with the door skin. These handles shall provide adequate clearances for the use of gloves. On the curb side and rear doors, the inside handle shall be constructed from stainless steel and shall be equipped with an inside door lock. All exterior storage compartments and module entry doors shall be lockable with the same key.

The side & rear entry doors and all exterior compartment doors shall be equipped with power door locks, interfaced to the chassis power door lock system & to an unlock switch located in the grill area of the chassis. The power door lock actuators shall be mounted using threaded or riveted fasteners. The use of glue to attach door lock actuators is not acceptable. The power door lock mechanism shall be engineered in such a fashion that a mechanically frozen power door lock actuator in the locked position will NOT prohibit the manual key lock from being successfully operated. All actuator rods for both power door locks and door latches shall be secured by metal clips or pins, no plastic attachment systems are to be used.

The compartment and entry door shall be painted separately from the modular body. The doors shall then be installed on the painted module. An ECK corrosion inhibitor shall be applied to the door frame and jamb painted extrusion prior to installing the doors to provide a barrier between the hinge and the paint.

All entry and compartment doors shall be insulated with 2-1/2" thick closed cell block foam insulation.

Does your bid comply with this requirement?

Yes () No ()

2.7.1 REAR DOOR HOLD OPENS

The rear doors shall be held open by Cast Grabbers. The U shaped piece shall be attached to the rear doors at top. It shall enter into a rubber insert when the doors are in the open position. An ECK corrosion inhibitor shall be applied to the mounting holes prior to installation. The Cast Grabbers shall be installed in a manner that will allow the rear doors to swing around near-flush with the rear of the body to allow more work room at the rear of the unit when loading the cot.

Does your bid comply with this requirement?

Yes () No ()

2.7.2 COMPARTMENT/SIDE ENTRY DOOR HOLD OPENS

All exterior compartment doors shall have 30lb Gas strut style or spring assisted door hold opens installed. Compartment opening angles shall allow maximum access to equipment, while not allowing any compartment door to make contact with or interfere with the safe operation of another. The curbside entry door shall have an extra-heavy duty dual spring hold-open device installed.

Does your bid comply with this requirement?

Yes () No ()

2.7.3 DOOR PANELS

The upper portions of the curbside and rear door panel shall be color coordinated and of the same or similar material as the interior cabinetry. The lower portions shall be bright aluminum diamond plate.

Does your bid comply with this requirement?

Yes () No ()

2.8 EXTERIOR STORAGE ACCOMMODATIONS

The exterior compartments shall be constructed of .125" diamond plate aluminum and shall be formed by a computer controlled brake to decrease the amount of welding to fully enclose the compartment. The compartments shall be completely welded at all seams. Skip welding is not acceptable. The compartment therefore, shall be water tight. The compartment shall be welded in place to the side and floor structure with an additional bracket welded to a bracket connecting the exterior wall two with the floor structure. The floor of the exterior compartments shall be flush with the bottom of the door jamb to provide a sweep-out design. The compartment floors shall be supported from beneath with one by two by .125 6061 T-6 rectangular tubing welded to the underside and the floor structure. All exterior compartments shall be vented above the floor line with machine stamp louvers. The exterior compartment shall be lockable with one key fitting all doors. The compartments shall be equipped with handle and door locks. Each exterior compartment shall be provided with a sealed light to be illuminated upon the door opening.

Does your bid comply with this requirement?

Yes () No ()

2.9 COMPARTMENT FINISH

The inside of all exterior storage compartments shall be fully finished polished aluminum diamond plate, resistant, bacteriostatic, anti-fungal, mildew resistant. Alternate materials such as sheet aluminum coated in spray or roll-on rubberized coatings may be presented as alternate but equal materials.

Does your bid comply with this requirement?

Yes () No ()

2.9.1 COMPARTMENT SHELF COVERING

All compartment shelves shall have a black turtle tile rubber mat securely installed. The rubber mat shall be cut, as needed, to fit the exact layout of each compartment shelf. Rubberized matting shall be installed in the back wall behind the stair chair to facilitate noise and vibration dampening.

Does your bid comply with this requirement?

Yes () No ()

2.10 COMPARTMENT 1

Compartment 1 is the driver side forward compartment. The door opening dimensions shall be a minimum of seventy-four (74) inches high and fifteen and a half (15.5) inches wide and eighteen (18) inches deep. Oxygen Compartment.

Does your bid comply with this requirement?

Yes () No ()

2.11 COMPARTMENT 2

Compartment 2 is on the driver side in front of the rear wheel. The door opening dimensions shall be a minimum of thirty-four (34) inches high and thirty-seven and a half (37.5) inches wide and six (6) inches deep. Electrical compartment.

Does your bid comply with this requirement?

Yes () No ()

2.12 COMPARTMENT 3

Compartment 3 is the driver side compartment. The door opening dimensions shall be a minimum of thirty-eight (38) inches high and fifty-five (55) inches wide and eighteen (18) inches deep. Compartment shall have double doors and one adjustable shelf.

Does your bid comply with this requirement?

Yes () No ()

2.13 COMPARTMENT 4

Compartment 4 is the driver side compartment over the rear wheel wells. The door opening dimensions shall be seventeen and a half (17.5) inches high and thirty-nine and a half (39.5) inches wide and twenty and a half (20.5) inches deep. Door shall fold down to serve as a shelf when fully opened.

Does your bid comply with this requirement?

Yes () No ()

2.14 COMPARTMENT 5

Compartment 5 is the driver's side rear compartment. The door opening dimensions shall be seventy-four (74) inches high and forty-two and a quarter (42.25) inches wide and twenty-one (21) inches deep. This compartment shall have a double door. Compartment shall have two dividers and three adjustable shelves. Compartment shall be adjusted to carry stair chair.

Does your bid comply with this requirement?

Yes () No ()

2.15 COMPARTMENT 6

Compartment 6 is on the passenger side just behind the rear wheel. The opening dimensions shall be twenty-nine (29) inches high and forty-two and a quarter (42.25) inches wide and twenty (20) inches deep. The compartment shall have double doors.

Does your bid comply with this requirement?

Yes () No ()

2.16 COMPARTMENT 7

Compartment 7 is the passenger side forward compartment. The opening dimensions shall be seventy-seven (77) inches high and twenty-four (24) inches wide and have inside/outside access. ALS Compartment

Does your bid comply with this requirement?

Yes () No ()

2.17 EXTERIOR VERTICAL DIVIDERS

Two (2) vertical dividers shall be located in compartment 5. They shall be manufactured of 1/8 inch thick aluminum. The divider shall be approximately eleven (11) inches wide and extend from the top of the compartment to the bottom and be centered from left to right.

Does your bid comply with this requirement?

Yes () No ()

2.18 EXTERIOR COMPARTMENT ADJUSTABLE SHELVES

The exterior compartment shelves shall be manufactured from 0.125 inch aluminum. Each shelf shall have a 0.125 inch thick ribbed rubber mat. Shelves per compartment shall be as follows:

- Compt 1: 0
- Compt 2: 0
- Compt 3: 1
- Compt 4: 0
- Compt 5: 4
- Compt 6: 0
- Compt 7: 2

The shelf track shall be heavy duty extruded aluminum and be full-height in each compartment.

Does your bid comply with this requirement?

Yes () No ()

2.19 EXTERIOR ELECTRICAL SHELF

An exterior shelf or cage shall be located in compartment "2" near the top of the compartment should it be necessary to mount electrical or mechanical components in this area. It shall serve the sole purpose of holding electrical equipment and be fixed in position and protecting this equipment and stored equipment from damage.

Does your bid comply with this requirement?

Yes () No ()

2.20 BACKBOARD HOLDER

One (1) inch flat bar shall be installed near the top of compartment 5 from wall #1 to wall #2 approximately sixty-eight (68) inches from the compartment floor. This will prevent the top of the back boards from falling out when the exterior door is opened.

Does your bid comply with this requirement?

Yes () No ()

2.21 STEP WELL AND WINDOWS

The curb side door step well shall have a light recessed into wall one of the step well. It shall be automatically lit when the side and rear doors are opened. The light shall be activated by a switch. The step well shall have two (2) entry steps and be finished with a polished aluminum diamond plate. Bottom of step well shall be recessed and have a removable aluminum grip strut insert with drain. There shall be a window in each of the three patient access doors. The window frame shall be of an extruded aluminum design with a protective anodized finish. The curbside entry door window shall include a sliding window to allow for fresh air when needed. The two (2) rear door windows shall have sliding glass. The glass shall have a privacy tint. Windows shall be oversized twenty-five and a half (25.5) inches high.

The side entry door shall have a storage caddy installed in the lower interior door panel that will accommodate IDC supplies.

Does your bid comply with this requirement?

Yes () No ()

2.22 *REAR FENDERS*

Black rubber fenderettes shall be provided around the rear wheel well openings to provide protection from wheel wash. An ECK corrosion inhibitor shall be applied to the mounting holes prior to installation.

Does your bid comply with this requirement?

Yes () No ()

2.23 *BUMPERS AND STEPS*

The chassis manufacturer shall supply the vehicles front bumper. The rear bumper and step assembly shall be a single unit constructed of ten gauge steel "C" formed channel and .125 inch thick aluminum tread plate as measured at the thinnest point of the tread plate. The center step of the bumper assembly shall be designed to allow it to flip up and out of the way to facilitate patient loading. The flip up section of the of the rear bumper shall be a grip strut material to meet the requirements of KKK - A – 1822F specification to create additional non-skid surface. Rear dock bumpers with cast trim rings shall be installed. A 2x2x0.125 aluminum box tube shall be welded inside the step full width on the side farthest from the rear of the vehicle. A stainless steel hinge with a center pin of .250 inch shall be used to attach the flip up section of the rear step to the main rear bumper assembly. This bumper assembly shall be bolted to supports that have been welded to the chassis frame. This assembly shall be bolted to the frame of the chassis with five-eighth (5/8) inch Grade 8 bolts. There shall be a minimum one half (1/2) inch clearance between the bumper assembly and the rear of the modular body to allow water drainage and inhibit water collection. Recessed cast tow eye boxes shall be provided on rear of the body with chrome tow eyes which are bolted to the frame rails with high-grade bolts.

Does your bid comply with this requirement?

Yes () No ()

2.24 *REAR DOCK BUMPERS*

Dock bumpers shall be installed on each outboard pontoon on the rear bumper. The dock bumpers shall measure nine (9) inches wide and six (6) inches high and have cast polished aluminum trim rings around them.

Does your bid comply with this requirement?

Yes () No ()

2.25 *SKIRT RAILS*

The street side and curbside modular body shall be provided with a black rubber skirt line trim rails. The rails shall be installed along the lower edge of the body. The rails shall be offset from the sides by a minimum of one half (1/2) inch to allow water and road wash not to collect between the rail and modular rail. Nylon spacers shall be used to install the rails to eliminate the possibility of electrolysis.

Does your bid comply with this requirement?

Yes () No ()

2.26 FRONT STONE GUARDS

The lower front corners of the patient compartment shall have stone guards attached to the corner extrusion. They shall be diamond plate aluminum and extend from the bottom edge of the corner extrusion up twenty-four (24) inches.

Does your bid comply with this requirement?

Yes () No ()

2.27 REAR KICK PLATE

Above the rear bumper and below the rear doors, there shall be a full length riser of aluminum diamond plate for a protective kick panel. The kick panel shall be securely fastened with stainless steel screws. There shall be a cast aluminum tag holder recessed in the center of the kick plate for the rear license tag. Two (2) cast recessed tow eye boxes shall be installed with chrome tow eyes.

Does your bid comply with this requirement?

Yes () No ()

2.28 REAR MUD FLAPS

Rear mud flaps shall be installed just behind the rear tires. The mud flaps may portray the ambulance manufacturer's logo.

Does your bid comply with this requirement?

Yes () No ()

3.0 PREPARATION FOR PAINTING, COLOR AND MARKERS

All bare aluminum shall be coated with a corrosive resistant self-etching primer. An automotive urethane sealer shall be used as well as an automotive urethane topcoat. The primer, sealer, and topcoat shall be a minimum of three point three mils thick. A small amount of body filler may be used to smooth imperfections in the aluminum. Colors and markings will be determined by LCEMS. The vehicle shall meet salt spray resistance and vehicle undercoating as set forth in paragraph 3.16.3 and 3.17 respectively of Federal Specification KKK - A - 1822F.

The compartment and entry doors shall be painted separately from the modular body. The doors shall then be installed on a fully painted module. **NO EXCEPTION.**

The paint scheme shall be as follows: Orange reflective single standard belt that extends onto the module body from the chassis. Rear of patient module shall have dual color "chevron" striping in colors approved by the purchaser.

Does your bid comply with this requirement?

Yes () No ()

3.1 PINSTRIPE

All paint edges shall be finished with a one quarter (1/4) inch blue pinstripe.

Does your bid comply with this requirement?

Yes () No ()

3.2 ROOF TOP MARKINGS

A "Star of Life" of not less than thirty-two (32) inches and conforming to KKK-1822F section 3.16.4.C shall be installed on the ambulance rooftop.

Does your bid comply with this requirement?

Yes () No ()

3.3 *LETTERING/LOGOS*

Lettering shall be included in the proposal and installed prior to delivery. Lettering shall be made of high-quality Avery brand reflective material. The lettering shall (at a minimum) include all verbiage as seen on the newest LCEMS unit.

Does your bid comply with this requirement?

Yes () No ()

4.0 *ELECTRICAL SYSTEMS AND COMPONENTS*

The emergency medical vehicle's electrical system must meet KKK - A1822 - F Section 3.7.1. LCEMS will specify systems, components, materials, and production methods within this section.

Does your bid comply with this requirement?

Yes () No ()

4.1 *CONSOLE CONTROLS*

The driver and patient compartment control consoles shall be constructed in a way that the switches and any gauges are easily serviced. They shall be accessible through service panels. These panels will be secured in the closed position in a positive manner, yet can be easily opened for service.

Does your bid comply with this requirement?

Yes () No ()

4.2 *CONSOLE GAUGES*

The control console gauges shall be internally illuminated and controlled by the headlight switch rheostat. All lights and fixtures installed on the module exterior shall have an ECK corrosion inhibitor applied to all mounting holes prior to installation. **NO EXCEPTION.**

Does your bid comply with this requirement?

Yes () No ()

4.3 *CONSOLE SWITCHES*

The driver and patient console shall incorporate full size "Euro-Style" rocker switches. The switch assembly shall be silver plated copper contacts and a .250 inch spade type terminal. The rocker switch shall incorporate a LED indicator lamp and rated at 15 Amps continuous service. The switch and rocker shall be of a thermo set molding material. The complete switch assembly shall be designed to withstand one thousand (1,000) volts RMS dielectric test. The switches shall have a positive "throw" feel and an audible click upon activation and deactivation

Does your bid comply with this requirement?

Yes () No ()

4.4 *SWITCH LABEL*

The rocker switches, as described in section 4.3, shall have integrated label lens area that is illuminated by two (2) independent LED's. The label shall be white legends on black poly carbonate background.

Does your bid comply with this requirement?

Yes () No ()

4.5 *WARNING INDICATORS*

The electrical system shall incorporate a warning light panel and audible signal in the driver's console. It shall provide indicator lights for showing, a patient compartment door(s), side and rear, are open. This shall be a flashing red LED light. There shall be an exterior compartment "door open" warning light. This shall be a flashing red LED light of the same size.

Does your bid comply with this requirement?

Yes () No ()

4.6 *ELECTRICAL INSTALLATION*

The ambulance body and accessory electrical equipment shall be served by circuit(s) separate and distinct from the vehicle chassis circuits. Wiring methods must conform to SAE J1292. All wiring provided by the primary manufacturer shall be copper and conform to all SAE J1127 and SAE J1128 requirements. All low tension primary cable shall have GXL or better insulation. All low tension battery cable shall have SGX insulation. Documentation from the wiring manufacturer that the wire used by the primary manufacturer is in compliance with this requirement shall be submitted with the proposal. Bids not meeting this requirement will not be accepted. **NO EXCEPTION.**

Does your bid comply with this requirement?

Yes () No ()

4.6.1 *WIRE COLOR AND DESCRIPTION*

The wiring shall be permanently color coded to identify wire function. Wires shall be permanently heat ink embossed with both number and function codes. The function code shall be the descriptive name of the circuit served. The number code shall be the exact purpose of that circuit. This number code shall be completely referenced in a detailed wiring schematic provided with the vehicle. The function and number code shall be embossed at a minimum of four (4) inch intervals the entire length of the wire terminating into all switch and control panels. The use of multi-conductor cable must be function and color coded and shown on the wiring diagram.

Does your bid comply with this requirement?

Yes () No ()

4.6.2 *WIRE ROUTING*

Wiring shall be routed in conduit or high temperature looms with a rating of three hundred (300) degrees Fahrenheit where necessary to protect it. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least six inches from the exhaust system components. Electrical wiring and components shall not terminate or be routed in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch plunger. All conduits, looms, and wiring shall be secured to the body or frame with insulated metal cable straps in order to prevent sagging and movement which results in chafing, pinching, snagging or any other damage. All apertures on the vehicle shall be properly grommited and sealed for passing wiring and conform to SAE 1292. All items used for protecting or securing the wiring shall be appropriate for the specific application and be standard automotive, aircraft, marine, or electronic hardware.

Does your bid comply with this requirement?

Yes () No ()

4.6.3 CIRCUIT

Circuit connections shall be made on barrier style terminal blocks utilizing binding post screws for positive mechanical connections. In order to minimize the potential for wiring shorts and voltage drops all wiring terminals shall be brass, tin plated, annealed, ETP copper with nylon high heat insulation. Serrations, inside the barrel, provide maximum contact and tensile strength after crimping. Connection shall be machine crimped, UL standards, with a high quality crimping tool that produces crimps for a given size wire and terminal that are precisely alike in appearance and performance.

Does your bid comply with this requirement?

Yes () No ()

4.6.4 SPLICES

No splices shall be permitted except for connection of "pig-tail" devices. Butt splices are permitted for connection of "pig-tail" devices. The use of IDC (Insulation Displacement Conector) connectors, i.e: "3M Scotchlok" type fasteners, is not acceptable.

Does your bid comply with this requirement?

Yes () No ()

4.6.5 WIRING HARNESS

The various wiring installations as supplied with this vehicle shall be of the automotive "harness" design. For ease of identification and future replacement these harnesses shall be engineered and manufactured in the following sections.

1. Engine compartment harness.
2. Driver's control console harness.
3. Main module harness.
4. Chassis rear lighting harness.

LCEMS is extremely concerned the primary manufacturer has the ability to control, warranty, and replace the harnesses. To that end, the primary manufacturer shall not subcontract the construction of these harnesses.

Does your bid comply with this requirement?

Yes () No ()

4.6.6 LOAD CAPACITY

All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry a minimum of one hundred and twenty-five percent (125%) of the maximum ampere load for which the circuit is protected. All wires carrying a load of more than five (5) amperes shall be a minimum of sixteen (16) AWG. There shall be a master electrical component panel located in the vehicle. It is preferred that the master panel be mounted on or near the bulkhead of the patient compartment. Standard circuit breakers, relays, and diodes shall be mounted on a printed circuit board that is easily accessible. All components on the circuit board are to be permanently labeled as to their function.

Does your bid comply with this requirement?

Yes () No ()

4.6.7 PRINTED CIRCUIT BOARD

The printed circuit board shall be designed and manufactured as follows: A screen printed board with all circuits fully numbered and labeled. The circuit board shall be a double-sided copper trace printed circuit with a double-sided laminated isolator. The board shall be non photo image able solder mask over bare copper with hot air leveled solder over non masked copper. Fuse capacity is the beginning factor in calculating trace width to ensure proper current

carrying capability. The circuits shall then be oversized as much as space permits for maximum cooling of the board. All holes shall be plated through. The terminal strips shall be mounted on the board for connection of the above mentioned wiring harness. Automotive transient suppressers must be incorporated into circuit board at the point of cable entry to the board. All relays must include built in noise suppression. The suppression must be accomplished with a IN4001 parallel with the coil. The relay must have a forty (40) ampere continuous contact rating with one form C contact arrangement. Normally open contact must have a maximum initial voltage drop of 200 millivolts at forty (40) ampere contact load. The relays must withstand twenty-four (24) VDC for five (5) minutes conducting rated contact current in case of accidental twenty-four (24) volt jump start condition. Circuit board options must be programmable via jumpers to facilitate addition of options. The color of wire and circuit number must be screen printed at the terminal block connections on the board for rapid identification and relation to schematics.

Documentation that the above requirements are met must be included with the bid document. The printed circuit board shall incorporate red LED indicators for on board diagnostics for input, output, and switching circuits for troubleshooting at a glance.

***ALL OF THE PRINTED CIRCUIT BOARD, TERMINAL STRIPS, SOLENOIDS, FLASHERS, OR RELAYS SHALL BE PLACED IN EXTERIOR COMPARTMENT 2.**

Does your bid comply with this requirement?

Yes () No ()

4.6.8 CIRCUIT BOARD CERTIFICATION

The printed circuit board must meet the following specifications:

1. Packaging and Interconnecting Acceptability Standard number IPC 600
2. UL-796
3. Solder mask, IPC number SM-840
4. Solder in conformance with MIL SPEC QS-571
5. Laminate in conformance with IPC number 4101

Does your bid comply with this requirement?

Yes () No ()

4.6.9 WIRE SERVICE LOOP

A service loop of wire or harness, per KKK-A1822-F specification, shall be provided at all electrical components, terminals, and connection points. All relays shall be mounted for ease of serviceability. All high current diodes greater than five (5) amperes shall be heat sink mounted. provide the optimum circuit "overload" protection, the electrical system's main circuit board shall allow for the use of stud type automatic reset pole breakers. One spare fifteen (15) ampere circuit breaker shall be provided for future use. A solid state electronic flasher shall be heat sink mounted to the panel for control of the flashing warning light system. All wiring between the cab and module shall be connected to a terminal strip(s) or block(s) or use multi pin connectors on the electrical component panel and shall provide for future module replacement. All connectors and terminals provided shall comply with SAE J163, J561, or J928 as applicable.

Does your bid comply with this requirement?

Yes () No ()

4.6.10 MASTER MODULE DISCONNECT SWITCH OR DEVICE

This device shall be located on the driver's compartment console and shall be permanently labeled and back lighted with a LED light and the brightness controlled by the head light rheostat. The "MASTER" disconnect switch shall be considerably different in size and feel from the other console switches.

Does your bid comply with this requirement?

Yes () No ()

4.6.11 PATIENT COMPARTMENT CONTROLS

All switches and controls for the patient compartment shall be located on a service panel in the Action Area. The switches and controls shall be identical as referenced in section 4.3 of this document. These switches shall not function until the "MASTER" switch in the driver's console is in the "ON" position. The patient compartment switches shall be permanently marked and back lighted by a LED light.

Does your bid comply with this requirement?

Yes () No ()

4.6.12 ELECTROMAGNETIC RADIATION AND SUPPRESSION

Must meet KKK - A1822 - F specifications. Documentation from an independent testing laboratory must be included with the bid.

Does your bid meet this requirement?

Yes () No ()

4.6.13 BATTERY SYSTEM

Battery cables shall be a minimum 2/0 AWG or as supplied by the chassis manufacturer. If the batteries are relocated other than the factory location, cables shall be upgraded to a minimum 3/0 AWG. This is required to maintain compliance with SAE J541 specification for starter motor circuit voltage drop for heavy duty applications. **All primary manufacturers must meet this specification.** All Cables larger than 10 AWG shall be pneumatically or hydraulically crimped utilizing tin plated copper connectors. This connection must be covered with an adhesive lined heat shrink to permanently seal against weather.

The vehicle shall be supplied with double twelve (12) volt battery system. The batteries shall be located in a factory mounted location under the hood. The ignition switch shall only turn off power to the module and not to the chassis. An emergency fail-safe switch shall be mounted in the cab console. The battery system shall be wired in accordance with KKK - A1822 - F specifications. The system must meet SAE J541 for starter circuit voltage drop.

Does your bid comply with this requirement?

Yes () No ()

4.6.14 ANTENNA CABLE INSTALLATION

Installation of antenna cables shall meet the requirements of paragraph 3.14.3 of Federal Specification KKK - A - 1822F. There shall be a total of four (4) antenna coax pre-wires provided. Exact origination and termination locations will be chosen at the preconstruction conference. Coax ends for the radio side of the coax shall be shipped loose for radio shop installation.

Does your bid comply with this requirement?

Yes () No ()

4.6.15 INTERNAL 12 VOLT DC POWER

The patient compartment shall be furnished with a twelve (12) volt DC, twenty (20) ampere capacity, separately protected circuits, with two outlets. The outlets shall be Cigar Lighter type auxiliary power outlets and shall be located: One the Action Area and one in the cabinet above the ALS compartment.

Does your bid comply with this requirement?

Yes () No ()

4.6.16 SHORELINE INLETS

Two (2) thirty (30) amp twist lock shoreline inlets with a GFI shall be installed and located on street side rear. One inlet shall have a yellow cover. It shall be wired to the interior 110-volt heater, for the battery charger and interior outlets. An ignition cutoff shall be wired to the yellow circuit which does not allow the unit to be cranked unless 110v power is disconnected from the unit. One (1) inlet shall have a red cover and be wired to the engine block heater. Two shore line cords shall be provided for each unit, each cord being thirty (30) feet in length, minimum ten (10) gauge wire with thirty (30) amp twist lock plugs (one male/one female) on each end. Cords shall be shipped loose with the vehicle.

Does your bid comply with this requirement?

Yes () No ()

4.6.17 115 VOLT AC UTILITY POWER

115 volt AC utility power must meet KKK - A1822 - F. Utility power shall be as described in KKK - A1822 - F, paragraph 3.7.8.1. Electrical 115 volt AC receptacles shall be as described in KKK - A1822 - F paragraph 3.7.8.2.

Does your bid comply with this requirement?

Yes () No ()

4.6.18 110 VAC OUTLETS

Five (5) 110VAC duplex outlets shall be installed in the patient compartment and one in the front cab of the unit. Two outlets shall be located in action area, one in rear of action area, one over the squad bench, one in ALS comp. and one in cab on passenger side of the console.

Does your bid comply with this requirement?

Yes () No ()

4.6.19 INVERTER/CHARGER

A 1000 watt inverter/charger shall be installed in interior cabinet behind the rear attendant seat. Alternate mounting locations may be presented for approval, but shall not interfere with the useable storage or functionality of the vehicle. It shall power the interior 110VAC outlets. A switch shall be installed in the action area for remote power activation.

Thirty (30) amp Iota battery charger/converter shall be installed in exterior compartment 2, wired to the shore line and interior patient compartment lights.

Does your bid comply with this requirement?

Yes () No ()

4.6.20 ACTION AREA CONSOLE

There shall be a console in the action area of the rear patient compartment to house the switches. The console shall be mounted in location that is easily accessible to the patient attendant seated in the Captain's chair and shall provide ease of access for service.

Does your bid comply with this requirement?

Yes () No ()

4.6.21 INSTRUMENT CONSOLE

A console shall be installed to house the switching panel and siren control head, as well as provide an easily accessible surface for the mounting emergency equipment radio installation. This console shall be securely mounted to the cab floor, yet be readily removed and remounted by service and radio shop personnel when needed. It shall be constructed of durable plywood with color-coordinated laminate finish. Alternate but equal materials may be presented for consideration prior to bid. The upper main switching panel shall be large enough to house all switches, siren control head, and provide extra space for the installation of two radio control heads. The switches shall be full size rocker switches with LED on the indicators. The switch assembly shall have silver plated copper contacts and a .250 inch spade type terminal. The switch and rocker material shall be a thermal set molding material. The complete switch assembly will be tested to withstand one thousand (1,000) volts RMS dielectric. Documentation of switch testing to be included with the bid. The switches must have a positive "throw" feel and an audible "click" upon activation. Console to be similar in design to Lexington County EMS and shall incorporate a mechanism for the storage of a Motorola Tough Book Laptop.

Does your bid comply with this requirement?

Yes () No ()

4.6.22 VOLTMETER

The vehicle shall include the chassis supplied voltmeter in the standard instrument cluster location.

Does your bid comply with this requirement?

Yes () No ()

4.6.23 SIREN, PUBLIC ADDRESS SYSTEM

The ambulance shall be equipped with hands free electronic siren with silent testing. The siren shall be a Whelen WS295HFS-M1 with a Q2B sound and with fixed microphone. Two one hundred watt speakers shall be outside the vehicle mounted within the front bumper. The siren speakers shall not impede the air flow into the engine compartment.

Does your bid comply with this requirement?

Yes () No ()

4.6.24 AIR HORNS

Dual Grover Stuttertone chrome air horn trumpets shall be installed with one on each side of the chassis. These shall be plumbed to an auxiliary air compressor and reservoir tank and be activated by an Air horn switch mounted within reach of the vehicle operator and front seat passenger.

Does your bid comply with this requirement?

Yes () No ()

4.6.25 SIREN/HORN SWITCHING

The siren shall be switched through the horn ring.

Does your bid comply with this requirement?

Yes () No ()

4.6.26 BACKUP ALARM

A backup alarm with a cut off switch shall activate when the vehicle is shifted into reverse. The alarm shall automatically be reset and engage when the vehicle is placed in reverse again. The device must meet OSHA and SAE J994 requirements, and shall be rated (SAE) for Type C or B.

Does your bid comply with this requirement?

Yes () No ()

4.6.27 BACKUP CAMERA SYSTEM

A backup camera system shall be installed above the rear exterior doors with a color monitor located on the front of the dash area in the cab. The camera shall activate when the vehicle is placed in reverse gear only. Additionally, a camera shall be mounted in on the bulkhead of the front module wall nearest the ceiling as possible. The camera SHALL be a Provision brand with seven (7) inch three (3) input control screen mounted in the cab with a recording device. *Specific model information will be provided in the mandatory pre-bid.*

Does your bid comply with this requirement?

Yes () No ()

5.0 VEHICLE EXTERIOR LIGHTING REQUIREMENTS

The basic exterior ambulance lighting shall comply with FMVSS standard number 108 and the requirement herein and include:

1. Amber front, rear directional signals, red brake and hazard warning lights.
2. Front and rear side marker lights.
3. Back up light(s).
4. Loading lights.
5. Clearance lights
6. Ambulance emergency lights.
7. Flood lights.
8. Spotlight(s)

The rear side marker light shall be a minimum of four inches in diameter and shall function as a turn signal indicator as described in KKK - A1822 – F and be a led type light.

Does your bid comply with this requirement?

Yes () No ()

5.1 EMERGENCY LIGHTING SYSTEM

The emergency lighting system must provide the vehicle with three hundred sixty (360) degrees of visual warning ability. The system must display highly perceptible and attention getting signals that function in a modal system and convey the message in the primary mode to clear the right of way. In the secondary mode hazard vehicle stopped on right of way. All warning lights will utilize internal flashers and flash in a random pattern.

Does you bid comply with this requirement?

Yes () No ()

5.2 FRONT UPPER WARNING LIGHTS

There shall be (7) Whelen 900 LED warning lights, FIVE (5) will be red and TWO (2) will have a clear lens and all chrome flanges installed across the front of the module body just below the integrated drip rail. LED color layout as follows:

RED, RED, CLEAR, RED, CLEAR, RED, RED

Exact flash patterns will be decided upon at the preconstruction meeting.

Does your bid comply with this requirement?

Yes () No ()

5.3 UPPER SIDE WARNING LIGHTS

There shall be (2) Whelen 900 red LED's and chrome flanges installed on each side of the module body in the extreme upper outer corners. All lights shall have RED LED modules. Exact flash patterns will be decided upon at the preconstruction meeting.

Does your bid comply with this requirement?

Yes () No ()

5.4 UPPER REAR WARNING LIGHTS

There shall be (6) Whelen 900 LED warning lights installed on the rear of the module body, two red & two amber just below the integrated drip rail. Color layout as follows:

RED, AMBER, (halogen load), (halogen load), AMBER, RED Exact flash patterns will be decided upon at the preconstruction meeting.

Does your bid comply with this requirement?

Yes () No ()

5.4 MID-HEIGHT REAR WARNING LIGHTS

There shall be (2) Whelen 900 red LED warning lights, installed on the rear of the module body at the level of the door windows. Lights will also be wired to have a brake over ride feature and to work as brake lights when the brake pedal is applied or to other wise flash. Exact flash patterns will be decided upon at the preconstruction meeting.

Does your bid comply with this requirement?

Yes () No ()

5.5 GRILLE AND INTERSECTION LIGHTS

Grille lights shall be (4) Whelen 700 red LED warning lights. Intersection lights shall be (2) Whelen 700 red LED warning lights in Cast housings. The rear wheel well area shall have (2) Whelen 700 red led warning lights with flanges. Exact flash patterns will be decided upon at the preconstruction meeting.

Wig-wag head light flashed system shall be provided and wired to the chassis head light system.

Does your bid comply with this requirement?

Yes () No ()

5.6 CLEARANCE LIGHTS

The primary manufacturer shall incorporate DOT marker lights at the highest point of the vehicle. Amber lenses shall be installed on the front corners and Red lenses shall be installed on the rear corners.

Does your bid comply with this requirement?

Yes () No ()

5.7 REAR LOWER MARKER LIGHTS

Two (2) RED LED marker lights shall be installed on the sides of the module body. There shall be one (1) installed on the compartment 4 door and one installed above compartment 5 door. These shall illuminate in low intensity with the vehicle park light switch and flash in high intensity with the corresponding turn signal.

Does your bid comply with this requirement?

Yes () No ()

5.8 EXTERIOR 12 VDC SCENE LIGHTS

Four (4) Whelen 900 series super LED Clear lights with chrome flanges shall be installed. Flood and loading lights shall not be less than seventy-five (75) inches above the ground and shall not be obstructed by open doors. Two (2) floodlights shall be located on each sides of the vehicle and be firmly fastened to the body surfaces below the roof line. The side flood lights shall be controlled from the cab console and be independently switched. Flood lights do not operate with the opening of the side module door.

Does your bid comply with this requirement?

Yes () No ()

5.9 EXTERIOR CAB SPOT LIGHT

There shall be a Go-Light electric control light mounted on the chassis cab roof. Controls shall be in the chassis cab area with easy access to the driver & passenger in the cab. End user to approve final location at pre-construction meeting.

Does your bid comply with this requirement?

Yes () No ()

5.10 REAR EXTERIOR LOADING LIGHTS

Two Whelen, 900 series super LED clear loading lights with chrome flanges shall be provided above the rear doors and shall illuminate the area surrounding the back loading and unloading doors. Rear loading lights shall activate automatically when the rear doors are open regardless of the switch position in the cab console. The rear load lights shall be incorporated with the FMVSS backup lighting system.

Does your bid comply with this requirement?

Yes () No ()

5.11 HEAD LIGHT FLASHER

A Whelen SSF2150 head light flasher shall be installed. A separate switch shall be installed on the front switching console for activation of the head light flasher. The flasher shall cancel when the vehicle headlights are place in high-beam mode.

Does your bid comply with this requirement?

Yes () No ()

5.12 LICENSE TAG LIGHT

There shall be two (2) license tag lights installed in the cast tag area of the rear license plate. These shall function when the vehicle park-light or head light switch is activated.

Does your bid comply with this requirement?

Yes () No ()

5.13 *REAR STOP/TURN/REVERSE LIGHTS*

Rear Stop/Turn/Reverse lights shall be stacked above the rear kick plate with chrome flanges as follows:

TOP: Two Whelen 60A00TAR Amber Arrow LED turn signal lights.

MIDDLE: Two Whelen 60J00CB HALOGEN series reverse lights.

BOTTOM: Two Whelen 60R00BRR red LED tail/stop lights.

Install Two 600 amber led turn lights on front of module.

Does your bid comply with this requirement?

Yes () No ()

5.14 *TURN/BRAKE/TURN INDICATOR LIGHTS*

There shall be (3) LED indicator lights installed in the patient compartment on the pad above the rear doors. There shall be two (2) amber lights wired to the turn signal circuit and one (1) red light wired to the brake circuit to notify the attendant and patient of the driver's intentions.

Does your bid comply with this requirement?

Yes () No ()

6.0 *VEHICLE INTERIOR LIGHTING*

The basic interior compartment shall be provided with nine (9) overhead fluorescent lights. The lights shall be a Thin Line brand or approved equivalent. There shall be three (3) lights located over the primary patient stretcher, three (3) over the squad bench and three (3) in the center wire trough. These lights shall be mounted into the patient compartment expanded PVC head liner. The lights must be screwed through tapping plates located on the top side of the PVC liner. The overhead lights shall have a switch for each row of lights. The attendant shall be able to control each row of lights via switches in the action area control panel. Each row of lights shall work together or may be separately selected from side to side. The three lights over the primary patient shall illuminate when the side modular or rear modular doors are open.

Does your bid comply with this requirement?

Yes () No ()

6.1 *STEP WELL LIGHT*

A step well light shall be provided in the step well area of the modular curb side door and shall be activated upon opening the curb side or rear modular doors.

Does your bid comply with this requirement?

Yes () No ()

6.2 *ACTION AREA LIGHT*

A twelve (12) volt direct current fluorescent light with integral switch shall be provided in the attendant action area. The light shall be a Thin Line brand or approved equivalent.

Does your bid comply with this requirement?

Yes () No ()

6.3 12VDC CHECK-OUT TIMER

There shall be a fifteen (15) minute check-out timer installed on the curbside wall at the head end of the squad bench. The check-out timer shall be wired constant hot to be active with the battery switch in the on or off position and control the lights over the squad bench side.

Does your bid comply with this requirement?

Yes () No ()

6.4 EXTERIOR STORAGE COMPARTMENT LIGHTS

Lighting for exterior storage compartments shall be accomplished utilizing low wattage, factory sealed, recessed mounted LED lights, activated by magnetic style door switches.

Does your bid comply with this requirement?

Yes () No ()

6.5 ELECTRICAL TROUBLESHOOTING LIGHT

A small light with a switch shall be installed in the circuit board area for troubleshooting. The light shall be wired battery hot.

Does your bid comply with this requirement?

Yes () No ()

6.6 PATIENT COMPARTMENT CLOCK

There shall be an Intellic Time Manager clock installed in the patient compartment action area.

Does your bid comply with this requirement?

Yes () No ()

7.0 INTERIOR INSTALLED HANGING COT HARDWARE

There shall be ceiling mounted hanging cot hardware installed on the cot side of the unit. Three (3) ceiling rods shall be installed and on one cot hook.

Does your bid comply with this requirement?

Yes () No ()

7.1 OVERHEAD GRAB RAIL

An overhead grab rail shall be installed in the patient compartment head liner. The grab rail shall be brushed stainless steel and handicapped style with rounded ends. The grab rail shall be a minimum of ninety-six (96) inches long and shall be firmly mounted to structural plates welded into the module roof.

Does your bid comply with this requirement?

Yes () No ()

7.2 GRAB HANDLES

Grab handles shall be installed on the two (2) rear entry doors and the curbside entry door. They shall be "V" shaped and extend down the entire height of each window and below the window. The handles shall be 7/8 inch diameter stainless steel.

Does your bid comply with this requirement?

Yes () No ()

7.3 *EXTERIOR CURBSIDE ENTRY ASSIST HANDLE*

There shall be an additional assist handle installed on the exterior of the module body just rearward of the curbside entry door. This handle shall be firmly mounted into tapping plates that have been welded into the module body structure (not just through the side skin.) The handle shall be constructed of aluminum.

Does your bid comply with this requirement?

Yes () No ()

7.4 *CURBSIDE SKIRT*

The module skirt on the curb side of the unit in front of the rear wheel wells shall be lowered three (3) inches to allow easier entry into the ambulance at the side entry door. The step well shall have a two (2) entry steps.

Does your bid comply with this requirement?

Yes () No ()

7.5 *SEAT, LITTER, RESTRAINT ANCHORAGE*

Patient restraints shall be as specified in paragraph 3.11.8 of Federal Specification KKK - A – 1822F. Cot fasteners and safety bets shall be mounted in tapping plates. The cot fastener shall be a Stryker 6360-30-10 and accommodate the Stryker Cot specified later in this document. It shall be mounted to the left wall of the ambulance. Front antler mounting plate MUST be secured at the proper distance from the side wall as per directions from the cot manufacturer.

Does your bid comply with this requirement?

Yes () No ()

7.6 *REAR COT SAFETY HOOK*

The rear cot safety hook shall be installed on the floor/wall of the patient compartment according to the cot manufacturer's instructions. Should wall mounting be used, the builder must provide a cot-manufacturer supplied shim kit to facilitate use of the Stryker power-pro cot.

Does your bid comply with this requirement?

Yes () No ()

7.7 *IV HOLDERS FOR INTRAVENOUS FLUID CONTAINERS*

IV holders shall be as specified in paragraph 3.11.9 of Federal Specification KKK - A – 1822F. There shall be (2) Cast Fold-Down IV hooks installed in the patient module headliner with one (1) between the curbside dome lights and one between the street side dome lights over the waist area of the cot.

Does your bid comply with this requirement?

Yes () No ()

7.8 *SQUAD SAFETY NET*

A squad safety net shall be attached to curbside wall, ceiling, and floor at the head end of the squad bench. The net shall be firmly secured to aluminum tapping plates welded into the modular body assembly. The net shall be able to be quickly removed for disinfection purposes.

Does your bid comply with this requirement?

Yes () No ()

8.0 OXYGEN, MAIN SUPPLY AND INSTALLATION

The ambulance shall have a hospital type piped oxygen system capable of storing and supplying three thousand (3,000) liters of medical oxygen. The cylinder controls shall be accessible from inside the patient compartment. A commercial tank regulator shall be provided and the pressure gauge shall be visible from the inside of the patient compartment. The oxygen shall be piped to two (2) self sealing Ohio adaptable oxygen outlets located in the action area and one (1) located on the curbside wall at the head of the squad bench. The oxygen system will incorporate electrically conducted oxygen hose with a working pressure of one hundred and fifty (150) pounds per square inch. All oxygen hose and outlets will use machine crimped brass ferrules and high pressure connectors. The entire oxygen delivery system will be pressured tested with a minimum of one hundred and fifty pounds per square inch of pressure of nitrogen gas for a period of four (4) hours. The testing documentation will be delivered with the vehicle.

A vacuum port shall also be located in the action area to supply the vacuum to the suction container.

Does your bid comply with this requirement?

Yes () No ()

8.1 OXYGEN CYLINDER RACK

A Zico model #QRMV "H" size oxygen cylinder rack or equivalent commercially manufactured device shall be located in compartment 1. The rack shall provide secure mounting for the "H" cylinder during normal driving conditions and shall be frame mounted to minimize failure in the event of a vehicle crash.

Does your bid comply with this requirement?

Yes () No ()

8.2 SUCTION PUMP

A suction pump shall be installed that shall comply with Federal Specifications KKK-1822F and be installed in compartment 2.

Does your bid comply with this requirement?

Yes () No ()

8.3 SUCTION ASPIRATOR

The ambulance shall be equipped with an on board vacuum aspirator. The unit shall be mounted on the action area wall above the action area tray to collect any bio fluids that may be spilled. The unit shall be a Rico RS4x with a white plastic container holder. The container shall be disposable and the regulator panel shall be located in the action area panel. The vacuum pump shall be installed via a twelve (12) volt direct current system. The on/off switch shall be located in the attendant's console.

Does your bid comply with this requirement?

Yes () No ()

9.0 INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices or other equipment. All interior cabinets shall be fully lined inside with high-pressure plastic laminate. The

equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Does your bid comply with this requirement?

Yes () No ()

9.1 *CABINET CONSTRUCTION*

The interior cabinets, squad bench assembly, shelves and doors shall be constructed of exterior grade plywood; due to the product's ability to be customized to fulfill the needs of LCEMS, the additional acoustical and thermal insulation properties, repair ability, and the safety factor of not producing sharp fragments or shards in the event of a serious collision. The thickness of the finished panels used to construct the cabinets, shelves and doors shall be three quarter (3/4) inches including mica, adhesive, and glue. Any construction material that provides anything less than three quarter (3/4) inch panels in cabinet construction is not acceptable to LCEMS.

The squad bench lid shall be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The patient compartment wall panel (behind the squad bench) and the cab compartment wall panel shall be constructed of 1/4 inch plywood and covered with color coordinating high pressure laminate.

The cabinets shall be constructed using a three quarter (3/4) inch dado tongue a groove procedure. All structural points shall have a three quarter (3/4) dado grove three eighths (3/8) inches deep and each cabinet part shall recess into the groove and be glued, nailed and screwed together at that point.

The doors on the upper cabinets shall be surface mounted with stainless hinges. The doors on the center and lower cabinets shall be flush mounted using continuous stainless steel piano hinge.

Does your bid comply with this requirement?

Yes () No ()

9.2 *INTERIOR SURFACES*

All vertical edges of cabinets shall be of an aluminum extrusion with a 3/4 inch radius designed to free the interior of the patient's compartment of all sharp edges or projections. There shall be no voids of the adhesive between the laminate and the cabinet surfaces.

Does your bid comply with this requirement?

Yes () No ()

9.2.1 *INTERIOR MICA COLORS*

Interior cabinet faces and interiors will be Dove Gray.

Does your bid comply with this requirement?

Yes () No ()

9.3 *FLOOR*

A top floor of seven (7) ply three quarter (3/4) inch boat grade plywood, sanded both sides with no voids, shall be installed over the moisture barrier. The plywood shall be marine resin coated prior to installation to prevent warping due to ambient moisture absorption. The plywood floor shall be one (1) piece from the bulkhead to the rear doors between the patient door steeple and squad bench and extend under the street side cabinets. The plywood floor shall be securely anchored to the floor sub structure with one quarter inch UNF machine by two and one half (2 1/2) inch screws. Alternate non-wood composite materials will be considered during pre-bid conference.

Does your bid comply with this requirement?

Yes () No ()

9.3.1 FLOOR COVERINGS

The patient compartment floor covering shall be a heavy duty vinyl no wax type material that is impervious to fluids. The vinyl flooring shall be glued to the plywood floor using an adhesive compound rated for fiber backed flooring. The flooring shall be Loncoin Gray. There shall be no adhesive voids between the flooring and the plywood. The floor shall be designed to roll up the side of the street side and bulk head cabinets and squad bench.

Does your bid comply with this requirement?

Yes () No ()

9.4 ATTENDANT SEATING

Seating for the attendant shall consist of a high-back seamless attendant seat with Integrated Child Safety Seat and a Three point seat belt. The seat covering shall be an easy clean vinyl material. The vinyl shall be Grey and Seating must meet OSHA regulation 1910.1030. The seat shall be mounted on a minimum one hundred eighty (180) degree swivel base. The seat belt shall be secured to the cabinet as well as the floor. The seat belt must be certified to KKK - A1822 - F specification and to FMVSS. Installation shall comply with FMVSS.

Does your bid comply with this requirement?

Yes () No ()

9.5 UPHOLSTERY

The finish of the entire patient's compartment, including storage cabinets and equipment, shall be impervious to soap and water, disinfectants, bio fluids, mildew and shall be fire resistant per FMVSS 302. Upholstered cushions shall be a minimum of thirty two (32) ounce nylon reinforced commercial vinyl material. Squad bench and backrest cushions shall be fabricated in such a manner to eliminate exposed welting. Cushions with welting or beaded seams shall not be accepted due to the risk of bio fluid penetration. A shall be vacuum formed construction and manufactured in house by the ambulance builder.

Does your bid comply with this requirement?

Yes () No ()

9.6 BULKHEAD CABINET

A bulkhead cabinet shall separate the cab from the patient compartment. The open pass thru shall allow for an opening of at least seventeen (17) inches between the chassis cab and rear patient compartment. The upper cabinet shall contain the rear heat/AC unit and have a removable service panel to access the AC heat unit.

Does your bid meet this requirement?

Yes () No ()

9.6.1 BULKHEAD OPENING

A bulkhead opening shall be provided between the cab and patient module. The window shall have a durable yet flexible boot to seal secured that will prevent moisture, wind, and debris from penetrating the opening.

Does your bid comply with this requirement?

Yes () No ()

9.7 RIGHT FRONT CABINET

The right front upper cabinet shall house the manufacture provided Smith Works IV warmer unit. It shall be wired to operate off the twelve (12) volt chassis system and be battery live.

Does your bid comply with this requirement?

Yes () No ()

9.7.1 RIGHT FRONT CABINET DOORS

The right front cabinet shall have a single door installed. The door shall be wood with clear Lexan inserts and color coordinated laminate. There shall be a South Co handle installed and roller ball catches to secure the door in the closed position.

Does your bid comply with this requirement?

Yes () No ()

9.8 SQUAD BENCH CABINET

The squad bench cabinet shall be located on the curb side of the patient compartment over the rear wheel well. The squad bench shall be a minimum of seventy-two (72) inches long and be constructed of three quarter (3/4) inch birch. The lid shall be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The hinge shall attach with fasteners in a vertical position through the face of the lid and not through the edge of the cabinet and lid. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The squad bench shall be furnished with three sets of lap safety belts for seated occupants and for the retention of a cot when positioned on the squad bench. The anchorages for the side facing seat belt assembly shall withstand a minimum of twenty-five hundred (2,500) pounds force when tested in accordance with FMVSS 210-S5.1. A full length cushion shall be installed on the squad bench lid and on the wall as a back rest. The interior of the squad bench shall provide storage the full length of the bench. At the head of the squad bench shall be a recessed lay down compartment toward the side door entry door step well for the storage of six portable O2 tanks, at least three of which shall be standard E-tanks and three standard D-tanks.

Does your bid comply with this requirement?

Yes () No ()

9.8.1 SQUAD BENCH LID

The squad bench shall have a full length lid that shall be manufactured from three quarter inch birch. The lid shall be covered in color coordinating high pressure laminate.

Does your bid comply with this requirement?

Yes () No ()

9.8.2 SQUAD BENCH LATCH

The squad bench lid shall be secured with a commercial latch that latches automatically when the squad bench lid is closed. The latch shall hold the lid secure during transit and shall not open unless the handle is lifted.

Does your bid comply with requirement?

Yes () No ()

9.8.3 SQUAD BENCH HOLD OPEN

When the squad bench lid is lifted, it shall be held in place by two (2) sixty (60) pound pneumatic hold opens.

Does your bid comply with requirement?

Yes () No ()

9.9 *CURBSIDE OVER-SQUAD BENCH CABINET*

A cabinet shall be located above the squad bench near the headliner. The cabinet shall be approximately seven (7) inches deep, eleven and a half (11.5) inches high and run the length from the curbside door to the rear wall cabinet. The cabinet shall be divided into two (2) sections with sliding CLEAR Lexan doors and flip up Restocking Feature installed.

Does your bid comply with this requirement?

Yes () No ()

9.10 *STREETSIDE CABINETS*

Cabinets on the street side of the patient compartment shall match the attached drawings. The rear left wall cabinet shall have inside outside access. All interior cabinets shall have a flip up restocking feature. All interior cabinets shall have a white 3M shelf liner installed on cabinet shelves and floors.

Does your bid comply with this requirement?

Yes () No ()

9.11 *STREETSIDE FRONT UPPER CABINETS*

Cabinets shall match the attached drawings. The cabinets shall have sliding CLEAR Lexan doors AND Gas-Strut style, flip-up Restocking Feature installed. Securing latch for this cabinet shall NOT be magnetic, but positive-locking upon closure, with thumb latch on the inside. Two (2) holes shall be provided to facilitate the securing of this cabinet with a break-away seal.

Does your bid comply with this requirement?

Yes () No ()

9.12 *FRONT LOWER BULK HEAD CABINETS*

Cabinet shall be located in the lower bulk head with a manufacturer provided Pharm-Guard IV warmer/cooler system. Unit shall be wired to operate of the twelve (12) volt system or when the shore line is plugged in. Cabinet shall have two (2) lockable slide-out drawers inside the cabinets, dimensions approximately as per drawings. The upper drawer shall have an internal storage box of tool board or similar material with a Kabo CL20 lock installed. Drawers shall be constructed of mesh material which will facilitate air flow and allow the entire cabinet to be climate controlled.

Does your bid comply with this requirement?

Yes () No ()

9.13 *TELEMETRY TRAY*

The top of the telemetry cabinet shall provide a clean work area. The countertop shall be one piece with a one and a half (1 ½) inch lip around the tray.

Does your bid comply with this requirement?

Yes () No ()

9.14 ACTION AREA CABINET

The action area shall provide for easy access to switches located in this area from the attendant seat, squad bench and CPR seat. The switches shall be located in an enclosed cabinet on the back wall of the action area.

Does your bid comply with this requirement?

Yes () No ()

9.15 ACTION AREA TRAY

The top of the action area cabinet shall provide a clean work area. The countertop shall be one piece with a one (1) inch lip around the tray. The tray shall be manufactured in such a way that provides a seamless countertop.

NO EXCEPTION.

Does your bid comply with this requirement?

Yes () No ()

10.0 STANDARD MANDATORY MISCELLANEOUS EQUIPMENT

Unless otherwise precluded elsewhere in this specification the vehicle shall be equipped with the following:

- One (1) ten (10) pound fire extinguisher that is ABC dry chemical multipurpose with a quick release bracket.
- No smoking oxygen equipment signs conspicuously place in the cab and patient compartment.
- Aluminum exam glove box storage for at least two sizes of gloves mounted in cab chassis on rear wall between cab seats.
- Aluminum storage compartment on exterior compartment door, per drawings.
- Glove box storage over side entry door.
- Rear speakers with volume control in action area.
- Remote jump start posts, per end users requirements.
- One halligan tool & one set of bolt cutters with mounting brackets installed on interior of oxygen compartments 1 door panel.

Does your bid comply with this requirement?

Yes () No ()

10.1 SHIP-LOOSE EMS EQUIPMENT

The following EMS Equipment shall be included and shipped-loose with the vehicle:

Two (2) thirty (30) foot, 10-gauge shore line cords, having thirty (30) amp twist-lock connections.

Does your bid comply with this requirement?

Yes () No ()

11.0 QUALITY ASSURANCE PROVISIONS

Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies, shall not be furnished without the written approval of the purchaser. Construction methods utilized shall be in accordance with industry standards. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances and uniformity.

At the time of delivery, the manufacturer's representative shall explain the use and operation of the new vehicle(s) and provide an owner's manual for the complete vehicle. The manual shall contain useful information on routine maintenance and trouble shooting. All warranty registration materials shall be completed and explained at the time of

delivery. The manufacturer shall arrange for over the road delivery under the finished vehicle(s) own power. The vehicle(s) shall be delivered clean and free of road debris with at least fifty (50) percent fuel on board.

The bidder shall be responsible for the performance and test requirements required herein. LCEMS reserves the right to perform any of the inspections and tests set forth in these specifications where such inspections are deemed necessary to assure conformation of specification. The primary manufacturer shall conform to LCEMS's representatives with instruments and all such assistance as may be required.

Does your bid comply with this requirement?

Yes () No ()

11.1 TESTS

The primary manufacturer is obligated to prove that the vehicle, ambulance components and equipment provided meet the requirements of this specification **and** are compliant to Federal Ambulance Specification KKK - A – 1822F and any amendments in effect at the time of this bid. Copies shall be provided with this of the test documents and a letter from an independent testing laboratory that has performed the tests certifying that the following tests have been conducted and passed. Test documents or any source other than described above shall not be accepted. Failure to comply with the requirement shall be considered as non-responsive and will not be accepted. The certified tests are as follows and conform to the requirements of this specification and Federal Ambulance Specification KKK - A – 1822F.

- A. Vehicle Physical Dimensions (3.4.11 through 3.4.11.6)
- B. Patient Compartment Interior Dimensions (3.10.4)
- C. Stepwell, Bumpers and Facilitation (3.11 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- D. Storage Compartment and Facilitation (3.11 through 3.11.2.1, 3.11.4 and 3.11.6)
- E. Ambulance Body and Patient Area (3.10.1 through 3.10.3, 3.10.6 through 3.10.8, 3.10.20 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- F. Vehicle Weight Distribution (4.4.3 and 3.5 through 3.5.6 and 3.19)
- G. Water Spray Test (4.4.5)
- H. 115 VAC Utility Power (3.7.8 through 3.7.8.3)
- I. Electrical System Components (3.7.8 through 3.7.8.3, 3.7 through 3.7.5, 3.7.7 through 3.7.7.4, 3.7.9 through 3.7.11, 3.8.1, 3.8.4 and 3.8.50)
- J. Patient compartment Illumination (3.8.5.1)
- K. Electrical Generating System (3.7.6 through 3.7.6.3 and AMD 005)
- L. Warning Lights and Siren System (3.8.2 through 3.8.4 and 3.14.6)
- M. Door Latches, Hinges and Hardware (3.10.9)
- N. Static Load Test (3.10.5 and AMD 001)
- O. Patient Compartment Interior Surfaces (3.10.17 and FMVSS 302)
- P. Oxygen System Test (4.4.6, 3.12.1 and 3.12.1.1)
- Q. Oxygen Cylinder Restraint Test (3.11.3 and AMD 003)
- R. Litter Fastener and Anchorage (3.11.7 and AMD 003)

- S. Suction Aspirator System (3.12.3 and 3.12.4)
- T. Heating Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.1 through 3.13.7)
- U. Air Conditioning Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.7, 3.6.4.5.1 through 3.6.4.5.1)
- V. Ventilation Criteria (3.13.6)
- W. Patient Compartment Sound Level (3.13.8 and AMD 006)
- X. Patient Color and Markings (3.16 through 3.16.2 and 3.16.4)
- Y. Manuals and Handbooks (3.20 and 6.8)
- Z. Seat Belt Test (3.11.6)
- AA. Electromagnetic Radiation and Suppression (3.7.12)
- BB. Standard Miscellaneous Equipment (3.15.2)
- CC. Miscellaneous Equipment (3.7.5 and 3.9.5)

Does your bid comply with this requirement?

Yes () No ()

12.0 EXCEPTIONS

Exceptions shall be submitted as set forth in this section. LCEMS will accept proposals from any business entity proclaiming to manufacturer vehicle(s) to conform to this specification. Further, LCEMS will not deny the right of any manufacturer to present their product. However, it should be noted, that any primary manufacturer that does not take exceptions shall produce the vehicle exactly as described. Failure to produce said vehicle may be grounds for LCEMS to pursue a resolution of damages through civil and criminal court.

13.0 GENERAL NOTES

Specifications for vehicle lettering and drawings will be addressed at the mandatory pre-bid.

COUNTY OF LEXINGTON
Procurement Services, 212 South Lake Drive, Suite 503, Lexington, SC 29072
Ph: (803) 785-8319 / Fax: (803) 785-2240

BIDDERS SCHEDULE

BID NUMBER: C15006-09/08/14S

DATE: August 7, 2014

OPENING DATE AND TIME: *September 8, 2014 @ 3:00 PM E.S.T.*

ADDRESS: Lexington County Procurement Office
County Administration Bldg., 5th floor
212 South Lake Drive, Suite 503, Lexington SC 29072

PROCUREMENT: Provide and deliver **Ambulances** under a term contract in accordance with the specifications, conditions, and provisions as applicable to this solicitation. All prices are to include all applicable shipping costs. Contract may be awarded to one or more vendors; whichever is most advantageous to the County.

QUANTITIES: Quantities are estimates only and are given for the purpose of bidding. They do not indicate actual ordered quantities or guarantee quantities to be ordered.

ITEM NUMBER	QTY U/I	DESCRIPTION MFG/MDL/STK #	TOTAL PRICE
----------------	------------	------------------------------	----------------

LINK AIR RIDE SUSPENSION

- | | | | |
|----|------|---|---------|
| 1. | 1 EA | Dodge 4500 as specified with Link Air Ride Suspension | \$_____ |
| 2. | 1 EA | Dodge 5500 as specified with Link Air Ride Suspension | \$_____ |

AIR RIDE SUSPENSION

- | | | | |
|----|------|--|---------|
| 1. | 1 EA | Dodge 4500 as specified with Liquid Spring Air Ride Suspension | \$_____ |
| 2. | 1 EA | Dodge 5500 as specified with Liquid Spring Air Ride Suspension | \$_____ |

KELDREMAN AIR RIDE SUSPENSION

- | | | | |
|----|------|--|---------|
| 1. | 1 EA | Dodge 4500 as specified with Kelderman Air Ride Suspension | |
| 2. | 1 EA | Dodge 5500 as specified with Kelderman Air Ride Suspension | \$_____ |

Delivery____ Days after Receipt of Order

COMPANY: _____ AUTHORIZED SIGNATURE: _____

The attached Certificate of Familiarity must be returned with bid.

Bidder Checklist:

Bidder is acknowledging that the following items have been provided with the bid.

_____ Certificate of Familiarity
Initial

_____ Acknowledgment of Amendment Number ___ - ___
Initial

_____ List of References
Initial

COMPANY: _____ AUTHORIZED SIGNATURE: _____

The attached Certificate of Familiarity must be returned with bid.
--

COUNTY OF LEXINGTON

C15006-09/08/14S AMBULANCES - TERM CONTRACT

LIST OF REFERENCES

Please list four (4) references that your company has recently or currently provided similar products and/or services for.

Company Name

Company Name

Representative

Representative

Address

Address

City, State, Zip Code

City, State, Zip Code

Telephone # / Fax #

Telephone # / Fax #

E-Mail Address

E-Mail Address

Company Name

Company Name

Representative

Representative

Address

Address

City, State, Zip Code

City, State, Zip Code

Telephone # / Fax #

Telephone # / Fax #

E-Mail Address

E-Mail Address

COMPANY: _____ AUTHORIZED SIGNATURE: _____

CERTIFICATE OF FAMILIARITY

The undersigned, having fully familiarized himself with the information contained within this entire solicitation and applicable amendments, submits the attached bid and other applicable information to the County, which I verify to be true and correct to the best of my knowledge. I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a bid for the same materials, supplies or equipment, and is in all respects, fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid. I further certify that this bid is good for a period of ninety (90) days, unless otherwise stated.

Company Name as registered
with the IRS

Authorized Signature

Correspondence Address

Printed Name

City, State, Zip

Title

Date

Telephone Number

Fax Number

Remittance Address

E-mail Address (PLEASE PRINT)

City, State, Zip

Telephone Number

Toll-Free Number if available

Federal Tax ID Number

SC Sales and Use Tax Number

DOES YOUR FIRM OWE THE COUNTY OF LEXINGTON ANY DELINQUENT TAXES?

___ YES/___ NO

TO: ANGELA M. SEYMOUR, PROCUREMENT OFFICER

FAX: 803-785-2240

E-MAIL: aseymour@lex-co.com

REQUEST FOR WRITTEN RESPONSE TO QUESTIONS

BID NO. C15006-09/08/14S

AMBULANCES - TERM CONTRACT

Deadline for questions is August 22, 2014 at 4:00 p.m.

All questions must be submitted in writing.

OFFEROR NAME AND ADDRESS:

DATE:

CONTACT PERSON:

TELEPHONE #:

FAX #:

(PLEASE REFER TO PAGE AND PARAGRAPH NUMBER WHEREVER POSSIBLE)

ATTACHMENTS:
COUNTY OF LEXINGTON CONTRACT SAMPLE

COUNTY OF LEXINGTON

Procurement Services
212 South Lake Drive, Suite 503, 5th Floor
Lexington, South Carolina 29072-3493

Phone (803) 785-XXXX
Fax (803) 785-2240

(Date)

Vendor Name
Contact Person
Address
City, State Zip Code

Re: Bid No. CXXXXX-XX/XX/XXX
Contract Name

Dear Sir/Madam:

Enclosed are two (2) signed original contract forms for the above referenced project. Upon review and approval, please have each copy of the contract signed on behalf of your company and return one fully executed original of the contract along with certificate of insurance to my office.

We look forward to working with you on this project. Should you have any questions concerning this contract, please call me.

Sincerely,

Procurement Officer

STATE OF SOUTH CAROLINA)
COUNTY OF LEXINGTON) CONTRACT FOR _____

THIS AGREEMENT is entered into by and between the **County of Lexington, 212 South Lake Drive, Suite 503, Lexington, South Carolina 29072** (hereinafter referred as "County"), and (*Vendor Name*), (*Address*), (*City*), (*State*), (*Zip Code*) (hereinafter referred to as "Company").

NOW THEREFORE, for and in consideration of the mutual covenants and conditions set forth herein, the parties hereto agree as follows:

1. **Scope of Contract.** Company shall provide a portion of (*Contract Name*) pursuant to BID No. *CXXXX-XX/XX/XX* (hereinafter referred to as the "BID"). Any deviation from the BID shall specifically be set forth in this contract. Any questions as to the product/services to be performed under this contract or day to day questions should be directed to the Procurement Manager of Lexington County or his designee.

2. **Term of Contract.** The term of this contract shall commence on (*Date*) and shall continue for a period of *XX (X)* year(s). County shall have the right, but not the obligation, to renew this contract for *XX (X)* additional one-year periods under the same terms and conditions. This contract may be extended upon County written notice not less than thirty (30) days prior to the expiration of the initial term or any extension hereof.

3. **Compensation.** County agrees to pay Company according to the schedule of charges attached hereto and incorporated herein as Exhibit "A" and there shall be no deviation from these charges without a written change order as provided for herein. The charges shall include all tariffs, taxes, fees and other assessments imposed from time to time by any federal, state, or local governments.

4. **Payment Terms.** Payment will be made within thirty (30) days after acceptance of completed order/project.

5. **Modification / Change Orders.** Any change orders, alterations, amendments or other modifications hereunder shall not be effective unless reduced to writing, signed by the County and Company, and executed with the same formality as this contract.

6. **Termination.** This contract may be terminated pursuant to the BID.

7. **Indemnification.** Company shall provide indemnification as set forth in the BID.

8. **Breach / Waiver.** No term or provision hereof shall be deemed waived unless breach thereof is waived in writing and signed by the party claimed to have waived and consented. No consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall constitute a consent to, or waiver of, or excuse for, any difference or subsequent breach.

9. **Severability.** If any term or provision of this contract shall be found to be illegal or unenforceable, then, notwithstanding any such illegality or unenforceability, the remainder of said contract shall remain in full force and effect and such term or provision shall be deemed to be deleted and severable therefrom.

10. **Entire Agreement and Priority of Documents.** This document, together with all subordinate and other documents incorporated by reference herein, will constitute the entire agreement between the parties with respect to the subject matter contained herein and may only be modified by an amendment executed in writing by both parties. Company hereby agrees, except where this contract specifically indicates otherwise, all written bids, specifications, brochures and sales materials presented by Company to County leading to this contract, and all other Company representations, commitments, warranties prior to and in connection with this contract, shall be deemed to be, and are, incorporated by reference into and made a part of this contract. Except as otherwise expressly stated, in the event of a conflict in the interpretation of the contract, the order of priority in descending order is (i) this document, (ii) the BID, and then (iii) the Response.

IN WITNESS WHEREOF, the Company and the County have signed and executed this contract
this _____ day of _____, 20__.

WITNESSES:

Procurement Officer

(VENDOR NAME)

BY: _____

ITS: _____

COUNTY OF LEXINGTON,
SOUTH CAROLINA

BY: _____

Procurement Manager

EXHIBIT A

SCHEDULE OF CHARGES:

SAMPLE